SEARS HOLDINGS

Lance Franke
Sr. Counsel, Regulatory Affairs
Sears Holdings Management Corporation
3333 Beverly Road, B6-324A-A
Hoffman Estates, IL 60179

Phone: 847-286-5926

Email: lance.franke@searshc.com

July 22, 2011

VIA EMAIL AND CERTIFIED MAIL

Carl Brickner
Case Developer, Mail Stop SFD-7-5
U.S. Environmental Protection Agency, Region IX
75 Hawthorne Street
San Francisco, CA 94105
Email: Brickner.Carl@epa.gov

Re: Request for Information Pursuant to CERCLA Section 104(e);

San Fernando Valley Area 2 Superfund Site - Glendale Chromium Operable Unit;

Sears, Roebuck and Co. facilities

12121 Victory Avenue, North Hollywood, CA

11961 Sherman Way, North Hollywood, CA 91605

Dear Mr. Brickner:

Sears, Roebuck and Co. ("Sears") is in receipt of Request for Information Pursuant to CERCLA Section 104(e) (the "104(e) Request") for two Sears facilities related to the San Fernando Valley Area 2 Superfund Site—Glendale Chromium Operable Unit. As indicated in the 104(e) Request, Sears is the current or former operator of retail facilities at Victory Blvd. 91606¹ ("Victory Blvd.") and 11961 Sherman Way, North Hollywood, CA 91605² ("Sherman Rd.").

As you know, Sears is a national retailer that sells a wide range of goods ranging from lawn and garden equipment to apparel. Often attached to Sears' retail stores are facilities specific to automotive parts, service and repair commonly known as "Sears Auto Centers" ("SAC"). Additionally, Sears has various facilities called "Product Repair Service" ("PRS") facilities where customers can repair various equipment and tools purchased from Sears' retail locations. The facility located at the Victory Blvd. location is a Sears' retail store as well as a SAC. The facility formerly operated by Sears at the Sherman Rd. location was a PRS location. Although in its daily operation of retail stores, SACs and PRS facilities, Sears

¹ Please see Question 3 to this 104(e) Request response for clarification on the correct address of this facility.

² Please see Question 3 to this 104(e) Request response for clarification on the correct address of this facility

does generate and responsibly dispose of hazardous materials, Sears facilities are not large industrial facilities which generate large amounts of hazardous pollutants. From our responses you will find that we similarly have not used, generated or disposed of chromium in our operations of the facilities subject to this 104(e) Request.

In our due diligence related to the 104(e) Request we worked with key members of our Environmental Affairs, Facility Services and Major Maintenance and Real Estate teams to obtain available relevant documentation and information requested by this 104(e) Request. Additionally, these internal Sears teams worked with relevant third parties to obtain available information and documents responsive to this 104(e) Request. Despite Sears making its best effort to respond to this 104(e), as described in greater detail in <u>Question 2</u> below, Sears underwent a business combination transaction with Kmart Holding Corporation ("**Kmart**") and Sears Holdings Corporation ("**Holdings**") in 2005 (the "Merger"). A consequence of the Merger is that Sears changed many of its previous operations and changed many of its previous vendors and practices. As a result, it has been difficult to find all-inclusive documentation responsive to this 104(e) request. Notwithstanding the forgoing, we believe that you will find from the responses and supporting documentation provided herein, there is no evidence of chromium being released by Sears into the environment at either facility subject to this 104(e) Request.

Notwithstanding the forgoing, below are Sears' responses to the 104(e) Request:

Question (1): See portion of each response entitled "SOURCE(s)" and Question 14 of this response.

Question (2): On March 24, 2005, each of Kmart and Sears entered into simultaneous mergers (the "Mergers") with newly formed separate subsidiaries of Holdings, which was incorporated on November 23, 2004 in order to facilitate the business combination transaction between Kmart and Sears. Kmart and Sears have been separate wholly-owned subsidiaries of Holdings since the consummation of the Mergers. Kmart and Sears together hold one hundred percent of the shares of Sears Holdings Management Corporation ("SHMC"). SHMC was formed in 2005 to provide the Sears Holdings Corporation family of companies a more efficient structure for ongoing management of the enterprise. SHMC focuses on retail management best practices and leverages knowledge and industry expertise throughout the business. SHMC provides management services for the benefit of its various affiliates and acts as the agent for both Sears and Kmart. Please see Exhibit H, for an organizational chart of the above listed entities. Further information regarding the relationship between the above listed entities can be found in the 10-K filings of **Holdings** this in 2010 located at link: http://www.sec.gov/Archives/edgar/data/1310067/000119312511062911/d10k.htm. If necessary, we can also provide copies of the various formation and merger documents upon further request.

Sears, through its agent SHMC, is the respondent to this 104(e) Request.

o SOURCE(s):

 Dorian Williams, VP & Deputy General Counsel; 3333 Beverly Rd., B6-237B-A, Hoffman Estates, IL 60179; (847) 286-1129

- http://www.sec.gov/Archives/edgar/data/1310067/0001193125110629 11/d10k.htm
- o Exhibit H—Org Chart of Kmart, Sears, Holdings and SHMC

Question (3): The owners of the facilities during the period of time Sears operated the facilities are as follows:

• 12121 Victory Avenue, North Hollywood, CA—Our records indicate that the actual address for this facility is "12121 VICTORY BLVD, NORTH HOLLYWOOD, CA 91606".

Our records show that Sears has owned this property since the date the store began operating on September 22, 1951 and continues to own the property as of the date of this response.

• 11961 Sherman Way, North Hollywood, CA— Our records indicate that the actual address for this facility is "11961 SHERMAN RD., NORTH HOLLYWOOD, CA 91606".

Our records indicate that this property was co-owned by Simha Lainer, Sara Lainer, Sigmund Loew and Regina Loew as of June 21, 1961 when Sears became a tenant. On or around June 16, 1970, it appears that Sigmund Loew and Regina Loew ceased being co-landlords with Simha Lainer and Sara Lainer. On or around May 27, 1981, Simha Lainer and Sara Lainer ceased being the landlord and Lanier Enterprises became the landlord. Our records further show that Sears exited the facility in September 2001 and terminated its lease as of February 20, 2002. See Page 2 of Exhibit A for dates of Sears' exit, and Exhibit B for landlord/tenant agreements summary.

• SOURCE(s):

- Domenica Cresap, Asset Manager, Real Estate; 3333 Beverly Rd., Hoffman Estates, IL
- Page 2 of document entitled "Site Walk-Through of Former Sears Product Services Center Unit Number 8248, 11961 Sherman Rd., North Hollywood, CA (attached hereto as <u>Exhibit A</u>)
- Summary of lease details for former PRS Unit# 8248 (attached hereto as <u>Exhibit B</u>)
- Bruce Kaye, Manager, Environmental Services; 3333 Beverly Rd., B5-350A-A, Hoffman Estates, IL; (847) 286-7810

Question (4):

Sherman Rd.: Please refer to that certain section entitled "Heating/Cooling" in Exhibit A which details the condition of the facility, upon Sears' exit from the premises in September 2001, as observed by an independent company, ENSR International. As described in the Heating/Cooling section of Exhibit A, the air conditioning for this facility was eight electrical roof-mounted units. The units were observed mounted in the ceiling rafters by ENSR International during their site visit. Based on these observations, much of the information requested for this property by

Question 4 of this 104(e) Request are not applicable. Nevertheless, below are our responses to the various Subparts to Question 4:

Subpart (a): See Exhibit B, which indicates that Sears began its lease of the premises as of June 21, 1961, and as indicated in Exhibit A, exited the facility as of September 2001. We have no documentation directly responsive to this question, however, we assume from the above documents that the cooling system was in operation from June 21, 1961 through September 2001.

Subpart (b): Not applicable, there were no cooling towers in operation at this facility.

Subpart (c): Not applicable, there were no cooling towers in operation at this facility.

Subpart (d): Not applicable; see details set out above related to this facility having eight electrical roof-mounted air conditioning units.

Subpart (e): Not applicable, electrical systems do not circulate water.

Subpart (f): Not applicable, electrical systems do not circulate water.

Subpart (g): Not applicable, electrical systems do not circulate water.

Subpart (h): Not applicable, electrical systems do not circulate water.

Subpart (i): Not applicable, electrical systems do not circulate water.

Subpart (j): Not applicable, electrical systems do not circulate water.

Subpart (k): Not applicable, electrical systems do not circulate water.

Subpart (I): We have no responsive maps, drawings, diagrams, plans, blueprints, photographs, or flow charts related the eight electrical roof-mounted air conditioning units. Please see <u>Exhibit A</u> for the few diagrams and/or photographs that we have which may contain peripherally responsive information.

Subpart (m): Not applicable, electrical systems do not have waste streams generated by their operation.

Subpart (n): Not applicable, electrical systems do not circulate water.

Subpart (o): Not applicable, electrical systems do not purge steam.

Subpart (p): Not applicable, electrical systems do not circulate water.

Subpart (q): Not applicable, electrical systems do not use chromium.

• SOURCE(s):

- Bruce Kaye, Manager, Environmental Services; 3333 Beverly Rd., B5-350A-A, Hoffman Estates, IL; (847) 286-7810
- Page 4 of document entitled "Site Walk-Through of Former Sears Product Services Center Unit Number 8248, 11961 Sherman Rd., North Hollywood, CA (attached hereto as <u>Exhibit A</u>). This document was prepared and provided to Sears by ENSR INTERNATIONAL 27755 Diehl Road, Suite 100 Warrenville, Illinois 60555.

12121 Victory Blvd., North Hollywood, CA:

- **Subpart (a):** Please see attached as <u>Exhibit C</u> the various maps, drawings, diagrams, plans, blueprints, photographs, and flow charts related to the cooling systems in place at this facility, where it shows that the design of the cooling systems was completed in January 1950. As previously indicated in Question 3, our records show that Sears commenced operating this facility on September 22, 1951. Based on this information, we believe that the cooling system at this facility has been in operation since September 22, 1951; however, our research has revealed no direct documentation relating to this specific point.
- **Subpart (b):** Please see response to Subpart (a) of this question as the response is the same.
- **Subpart (c):** Based on the information set forth in Subpart (a) to this question, we believe that the cooling tower at this facility was constructed/installed sometime between January 24, 1950 and September 22, 1951; however, our research has revealed no direct documentation relating to this specific point. Please see the diagram in Exhibit C entitled "AIR COND. EQUIPMENT SCHEDULES" for more details related to the cooling tower specs. From this document, we can tell that the cooling tower is an "EQUIVALENT PRITCHARD & CO. MODEL NO. 1B12 BQR 18". It appears that the cooling towers are constructed as follows:
 - Metal Basin, Struts and Distribution Decks
 - PVC Fill
 - Fiberglass Drift Eliminators
- **Subpart (d):** Please see <u>Exhibit C</u> for more detail but the cooling system used in this facility appears to be an "open recirculating cooling system" as it utilizes cooling towers. For further detail on the cooling system components and specifications, Please see the diagram in <u>Exhibit C</u> entitled "AIR COND. EQUIPMENT SHCEDULES".
- Subpart (e): Please see attached as Exhibit D, copies of all MSDS sheets for substances used in the cooling system and cooling tower; please note that the earliest MSDS sheet we have for such products is 11/09/2000. Our records indicate that the only products used in the cooling systems are: Sodium dichloros-triazinetrione; Bromo, chloro-5,5-dimethylhydantion; B939L; CT-531; C876L; and STABROM 909 Biocide.
- **Subpart (f):** As can be seen from the MSDS sheets provided as <u>Exhibit D</u>, none of the substances added to the water and/or cooling systems at this facility contained chromium. Our research has revealed no information related to substances, other than those delineated in Subpart (e) to this question, which were added to the water and/or cooling systems at this facility.
- **Subpart (g):** Sears does not maintain the cooling systems, nor the water treatment therefor, at this facility; such maintenance is performed by subcontractors. Our records show that from 2005-2006, Advanced Chemical Technology ("ACT"), 8728 Utica Ave., Rancho Cucamonga, CA (800-527-6907) performed these services. We have been unable to find records prior to these dates. Please see attached as <u>Exhibit E</u>, select "Service Reports" from ACT related to their service of the cooling systems at this facility.

Our records show that from 2007 to present, Cascade Water Services ("Cascade"), 113 Bloomingdale Rd, Hicksville, NY 11801, (516-932-3030), has been maintaining the cooling system and water treatment at this facility. Please see attached as Exhibit E, select "Service Reports" from Cascade related to their service of the cooling systems at this facility.

Cascade's current process is as follows:

Both *CASCADE C-876L* and *StaBrom 909* are automatically feed to the open re-circulation system via the controller.

CASCADE B-939L is manually fed to the closed chilled and hot systems via a pot feeder.

CASCADE C-876L is stored in the Chiller Room in a 30/Gallon plastic tank.

StaBrom 909 is stored in the Chiller Room in a 5/Gallon plastic pail.

CASCADE B-939L is stored in the Chiller Room in a 5/Gallon plastic pail.

Subpart (h): See Subpart (g).

Subpart (i): To our knowledge, we have not been required to file any such requested reports

Subpart (j): To our knowledge, no chromium was ever detected in the water used in the cooling system or cooling towers at this facility.

Subpart (k): To our knowledge, no tests requested were ever conducted.

Subpart (1): See Exhibit C.

Subpart (m): By design, open systems evaporate a significant amount of pure *(distilled)* water. The contaminants typically found in nunicipal make-up waters remain in the system and upon reaching a pre-determined maximum conductance, are purged *(bleed)* to prevent the formation of efficiency robbing deposition.

A microprocessor continuously monitors the conductivity of the system water. When the system conductivity reaches a prescribed set point the controller activates a solenoid bleed valve discharging the concentrated system water to the sewer. As the system loses water, a float valve opens sending fresh municipal make-up water into the system. This process continues until the system conductivity is reduced approximately five-percent below the purge set point.

Subpart (n): The volume and frequency of the cooling water blow-down discharged from the cooling system and the waste storage methods for the blow-down are as follows:

Online Tonnage	225
Recirculation Rate	900 GPM
ΔΤ	10 °F
Estimated Load	75%
Hrs/Day Operation	10

Days/Year 365

Daily Evaporation 4,050 Gallons

Daily Bleed 2,025 Gallons

Daily Make-up 6,075 Gallons

The actual bleed frequency is determined by the ambient temperature and the heat load on the cooling system.

The bleed flows directly into the municipal sewer. There is no waste storage.

Subpart (o): The system water is bled via a conductivity controller and solenoid bleed valve. The stream is taken directly from the discharge side of the cooling tower recirculation pump. The solenoid bleed valve is located downstream of the controller. The tower bleed flows directly into the municipal sewer.

Subpart (p): To our knowledge, no such analyses have been performed.

Subpart (q): To our knowledge, no such analyses have been performed.

• SOURCE(s):

- o Bruce Kaye, Manager, Environmental Services; 3333 Beverly Rd., B5-350A-A, Hoffman Estates, IL; (847) 286-7810
- Sam Wildstein, Director of Health, Safety and Environment; Cascade Water Services, 113 Bloomingdale Rd, Hicksville, NY 11801; Phone: (516) 932-3030 or (914) 419-0378;
 swildstein@cascadewater.com
- Chris Lubner; Cascade Water Systems, Inc, 1938 N Batavia Street,
 Unit H Orange, CA 92865-4140; Office: (714) 282-0077; Cell: (562) 547-6280; clubner@cascadewater.com
- o Advanced Chemical Technology, 8728 Utica Ave., Rancho Cucamonga, CA; Phone: (800) 527-6907
- Albermarle Corporation, 451 Florida St., Baton rouge, LA; (800) 535-3030
- o Todd Lemmert, DVP, Facility Services & Major Maintenance; 3333 Beverly Rd., A2-361A-A, Hoffman Estates, IL; (847) 286-6546
- Exhibit C—Various maps, drawings, diagrams, plans, blueprints, photographs, and flow charts related to the cooling systems in place at Victory Blvd.
- <u>Exhibit D</u>—Copies of all MSDS sheets for substances used in the cooling system and cooling tower at Victory Blvd.
- o <u>Exhibit E</u>—"Service Reports" from ACT and Cascade related to their service of the cooling systems at Victory Blvd.

Question (5): To our knowledge, we have no records that chromium, or any substances containing chromium, were utilized in any operations at either facility subject to this 104(e) Request.

Subpart (a): None, to our knowledge.

Subpart (b): None, to our knowledge.

Subpart (c): None, to our knowledge.

Subpart (d): None, to our knowledge.

Subpart (e): None, to our knowledge.

Subpart (f): Please see Exhibit A for pictures and/or diagrams related to the facility located at **Sherman Rd.**; to our knowledge we are not in possession of any further maps, drawings, diagrams, plans, blueprints, as-builts, photographs, or flow charts related to the building, the operation, or piping that was connected to the building at this address.

Please see attached Exhibit C and Exhibit F for all documents responsive to this question as it relates to the facility located at Victory Blvd.. To our knowledge we are not in possession of any further maps, drawings, diagrams, plans, blueprints, as-builts, photographs, or flow charts related to the building, the operation, or piping that was connected to the building at this address.

Subpart (g): To our knowledge, no requested reports or tests were performed for the site located at Sherman Rd.

Please see attached Exhibit G for responsive documents related to Victory Blvd. Exhibit G is a Preliminary Environmental Assessment Report ("PEAR") for the Proposed East Valley Middle School No. 1 site in Los Angeles, CA prepared by Earth Tech Inc. on behalf of the Los Angeles Unified School District to evaluate possible health impacts to future students and staff as the proposed site. Included in this evaluation was the Sears property located at Victory Blvd. as it was considered a RCRA/RCIS (Small Quantity) Generator located adjacent to the proposed school site.

In the PEAR are the results (and discussions thereof) from various tests, including those on soil samples collected from the site, which tested for various things including chromium. This PEAR concluded that chromium concentrations in the soil were not found to be problematic. Specifically, please see PEAR (see Exhibit G), section 7.2.1, paragraph 3, page 7-3, where it states "...all metal concentrations detected at the site [including chromium] were deemed to be within background concentrations."

Additionally, tests performed for this PEAR included those of the groundwater at the site. Similarly, the PEAR concluded that groundwater was not being contaminated by releases from the site. Specifically, in Section 5.2.1.2 of the PEAR it clearly states that "[b]ased on the reported depth to groundwater and the results of previous and current reports and investigations, no evidence has been found indicating a release or threatened release from the site to groundwater. Therefore, the aquifers are not known or suspected to be impacted from activities at the site."

Subpart (h): Not applicable as we have no record or knowledge of chromium being used in our operations at either facility.

• SOURCE(s):

- Bruce Kaye, Manager, Environmental Services; 3333 Beverly Rd., B5-350A-A, Hoffman Estates, IL; (847) 286-7810
- o Earth Tech Inc., 100 West Broadway, Ste. 240, Long Beach, CA 90802
- o Todd Lemmert, DVP, Facility Services & Major Maintenance; 3333 Beverly Rd., A2-361A-A, Hoffman Estates, IL; (847) 286-6546
- Exhibit F—Further maps, drawings, diagrams, plans, blueprints, asbuilts, photographs, and/or flow charts related to the building, the operation, or piping that was connected to the building at this address at Victory Blvd.
- <u>Exhibit G</u>—Preliminary Environmental Assessment Report for the Proposed East Valley Middle School No. 1 site in Los Angeles, CA prepared by Earth Tech Inc. on behalf of the Los Angeles Unified School District
- Question (6): The cooling system in the facility located at **Sherman Rd.** does not use water; consequently this question is not applicable to that site.

The water for the cooling system located at Victory Blvd. is from the municipal water system:

City of Los Angeles
Department of Water and Power
P.O. Box 51111
Los Angeles, California
90051-0100

800-DIAL-DWP (800-342-5397) mailto:ccenter@ladwp.com

Question (7): The cooling system in the facility located at **Sherman Rd.** does not use water; consequently this question is not applicable to that site.

The water used in the cooling systems and cooling tower located at Victory Blvd. are discharged into the municipal sewer system:

City of Los Angeles Board of Public Works Room 361-P, Mail Stop 46 200 North Spring Street Los Angeles, CA 90012-4801 (213) 978-0262

- Question (8): The cooling system in the facility located at **Sherman Rd.** does not use water; consequently this question is not applicable to that site. The water for the cooling system located at **Victory Blvd.** is from the city water lines; consequently, this question is not applicable.
- Question (9): To our knowledge, there have not been any releases, or suspected releases, of chromium or substances containing chromium, at or from either facility subject to this 104(e) Request.
- Question (10): To our knowledge no hazardous waste-related tax has been paid by Sears for either facility subject to this 104(e) Request related to any operation from which waste containing chromium was sent to an off-site disposal facility.
- Question (11): To our knowledge, no Federal, State, County, City or other local permit, license, or registration has been issued to either facility subject to this 104(e) Request concerning the storage, use, or discharge of substances containing chromium.
- Question (12): To our knowledge, no documents related to warnings, fines, penalties, notices of violation, or notices of non-compliance have been sent to Sears by a Federal, State, County, or City agency or office, for the release, potential release, or perceived release of chromium or substances containing chromium at or from either facility subject to this 104(e) Request.
- Question (13): To our knowledge Sears has not had any permits issued under RCRA for either facility. For the both the **Sherman R.** and **Victory Blvd.** locations we have, or have had, RCRA waste generator ID numbers, but do (did) not generate enough waste to require a RCRA permit.
 - SOURCE(s):
 - o Bruce Kaye, Manager, Environmental Services; 3333 Beverly Rd., B5-350A-A, Hoffman Estates, IL; (847) 286-7810
- Question (14): Below are the individuals most able to deal with these questions.
 - o Todd Lemmert, DVP, Facility Services & Major Maintenance; 3333 Beverly Rd., A2-361A-A, Hoffman Estates, IL; (847) 286-6546
 - o Bruce Kaye, Manager, Environmental Services; 3333 Beverly Rd., B5-350A-A, Hoffman Estates, IL; (847) 286-7810
- Question (15): Below are the individuals most able to deal with these questions.
 - o Edgar Cobian <u>Edgar.Cobian@searshc.com</u> Quality Maintenance Technician ("QMT") for Sears (currently) 661-753-6792
 - o John Mitchell John.F.Mitchell@searshc.com previous OMT
 - Waymond Long <u>Waymond.long@searshc.com</u> previous QMT (prior to John Mitchell)
 - O Chris Lubner; Cascade Water Systems, Inc, 1938 N Batavia Street, Unit H Orange, CA 92865-4140; Office: (714) 282-0077; Cell: (562) 547-6280; clubner@cascadewater.com

Question (16): Below are the individuals most able to deal with these questions.

- o Todd Lemmert, DVP, Facility Services & Major Maintenance; 3333 Beverly Rd., A2-361A-A, Hoffman Estates, IL; (847) 286-6546
- o Bruce Kaye, Manager, Environmental Services; 3333 Beverly Rd., B5-350A-A, Hoffman Estates, IL; (847) 286-7810

Sincerely,

SEARS HOLDINGS MANAGEMENT CORPORATION

By:_

Lance Franke

Sr. Counsel, Regulatory Affairs

Sears, Roebuck and Co. Hoffman Estates, Illinois



Site Walk-Through of

Former Sears Product Services Center Unit Number 8248 11961 Sherman Road North Hollywood, California

ENSR INTERNATIONAL

27755 Diehl Road, Suite 100 Warrenville, Illinois 60555

April 2002

ENSR Document Number 05897-073-100

Sears, Roebuck and Co. Hoffman Estates, Illinois

Site Walk-Through of

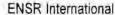
Former Sears Product Services Center Unit Number 8248 11961 Sherman Road North Hollywood, California

ENSR INTERNATIONAL

27755 Diehl Road, Suite 100 Warrenville, Illinois 60555

April 2002

ENSR Document Number 05897-073-100





April 19, 2002

ENSR Project No: 05897-073-100

27755 Diehl Road Warrenville, IL 60555-3998 (630) 836-1700 FAX (630) 836-1711 www.ensr.com

Ms. Teresa Kee Sears, Roebuck and Co. 3333 Beverly Road A2-239B Hoffman Estates, Illinois 60179

Re: Site Walk-Through

Former Sears Product Services Center

Unit Number 8248 11961 Sherman Road

North Hollywood, California

Dear Ms. Kee:

ENSR is pleased to transmit this letter report on the above-referenced property. This Site Walk-Through was performed pursuant to the Sears/ENSR Environmental Work Order (EWO), which was authorized on February 13, 2002. The agreed-upon objective of the investigation was to assess current on-site conditions at the above-referenced site (subject property) subsequent to Sears vacating of the property in September 2001. This investigation consisted exclusively of a site inspection and interview with a site contact.

On February 28, 2002, Ms. Brenda Miller of ENSR visited the subject property location to perform the site inspection. At the time of ENSR's site inspection, the subject property was unoccupied. Mr. Richard Allen of Sears accompanied ENSR on the site walk and answered questions. ENSR also interviewed Ms. Berma Colbert, Operating Manager with Sears.

The subject property is located at 11961 Sherman Road, in a light industrial/commercially developed area of North Hollywood, California. The subject property consists of approximately 1½ acres of land and is currently developed with an approximately 8,000-square-foot, vacant warehouse building formerly occupied by a Sears Product Services Center. Asphalt-paved parking areas and driveways are located on all sides of the subject property building to the north, south, east and west. A small landscaped area is also located along the east side of the building. No basements, sublevels, or elevators were observed onsite. The building is one story high, with brick wall construction, on a concrete foundation. The roof is of a flat wood-frame construction. A wood-walled and metal-roofed add-on is located at the northeast corner of the building, and a metal-walled and metal-roofed add-on is located on the north side of the building, both with concrete floors. An empty metal shed on a wood platform is located in the northeast corner of the subject property. Ms. Colbert reported that heating and air conditioning were formerly provided by natural gas-fired and electrical roof-mounted units.



According to Ms. Colbert, for at least the last seven years the Sears Product Services Center consisted of offices, parts storage, and a "sales floor" (where parts and re-conditioned small household appliance, such as VCRs, were sold). Ms. Colbert reported that it has been over seven years since a repair shop operated on site, and over ten years since any automobile maintenance activities were conducted on site. Neither Ms. Colbert nor Mr. Allen was familiar with on-site activities prior to Sears' occupancy.

The building interior appears to have undergone recent asbestos abatement, and a dumpster, labeled "asbestos", was observed near the northwest corner of the building. No suspect asbestos-containing material was observed on site at the time of ENSR's site visit.

Mr. Allen and Ms. Colbert indicated that they were not aware of Underground Storage Tanks (USTs) currently on the subject property. One inoperable underground hydraulic lift and associated above ground reservoir were observed near the northeast corner of the subject property. An area of dark staining was observed on the concrete beneath the hydraulic fluid reservoir. No other notable staining was observed on site. No evidence of oil/water separators or sumps was observed on site, or reported by Ms. Colbert and Mr. Allen to be located on site.

SITE INSPECTION

Hazardous Substances / Containers / Drums

ENSR observed three 55-gallon drums (labeled "waste oil" and "for used oil only") near the northeast corner of the subject property. Mr. Allen reported that the drums did not belong to Sears, nor was the waste oil generated as part of Sears operations onsite. Mr. Allen indicated that the drums must belong to the building owner as they were not present at the time Sears vacated the site. No significant staining was observed on or around the drums.

Storage Tanks (Aboveground and Underground)

ENSR did not observe obvious physical evidence (i.e., vent or fill pipes) indicative of USTs currently located on site. According to Mr. Allen and Ms. Colbert, no USTs are currently located on the subject property. One approximately 50-gallon above ground tank was observed in the northeast portion of the site. Piping and saw-cuts in the concrete indicate that the container was likely the hydraulic fluid reservoir for the nearby lift. An approximately 2-foot by 3-foot area of dark staining was observed on the concrete beneath the hydraulic fluid reservoir. Ms. Colbert reported that automotive maintenance activities had not been conducted on site for at least ten years. Neither Mr. Allen nor Ms. Colbert was familiar with the operation of the hydraulic lift.



Hydraulic Lift Systems

ENSR observed one out-of-service in-ground hydraulic lift in the northeast portion of the site.

In-Ground Hydraulic Lifts Sears Product Services Center 11961 Sherman Road North Hollywood, California							
Lift Number	Location	Above ground or underground hydraulic reservoir	Replacement or removal date	Removed, Capped Off, or Present	Double or Single Piston		
1	Northeast portion of the site	Above ground	Not Applicable	Present, but inoperable	Double		

One inoperable in-ground hydraulic lift and associated above ground reservoir were observed near the northeast corner of the subject property. Mr. Allen and Ms. Colbert indicated the lift was inoperable and had not been utilized for at least 10 years. Additionally, the aboveground portions of the lift had been removed. The pistons appeared to have been removed; however, the piston "sleeves" were present and uncapped. According to Mr. Allen and Ms. Colbert, no other hydraulic lifts are known to have been present on site. No significant staining was observed on the concrete in the vicinity of the hydraulic lift.

Odors

ENSR did not detect obvious petroleum or other chemical odors at the time of the site inspection.

Pools of Liquid

ENSR observed no standing water/fluids on the subject property.

Battery Area

No evidence of battery storage areas was observed on site at the time of ENSR's site visit. Neither Mr. Allen nor Ms. Colbert was aware of batteries previously stored on site. The concrete



floors in the storage/warehouse area appeared to be in good condition, and no significant staining or floor drains were observed in these area.

Polychlorinated Biphenyls (PCBs)

ENSR observed three pole-mounted transformers near the southwest corner of the subject property along the west boundary of the subject property. The Los Angeles Department of Water and Power (LADWP) owns the transformers. ENSR did not observe any labels regarding the PCB content of the pole-mounted transformers at the time of the site assessment. No staining or unusual conditions were observed in association with the pole-mounted transformers.

Heating/Cooling

Ms. Colbert reported that heating and air conditioning were formerly provided by natural gasfired and electrical roof-mounted units. What appeared to be eight air conditioning units were observed mounted in the ceiling rafters at the time of ENSR's site visit. According to Ms. Colbert, natural gas is provided by the Southern California Gas Company and electricity is supplied to the subject property by the LADWP.

Stains or Corrosions

ENSR observed dark staining, approximately four square feet in size, on the concrete beneath the hydraulic fluid reservoir located in the northeast portion of the subject property. The concrete in this area appeared to be in good condition, with no cracks noted at the time of the site inspection. However, seams were observed in the concrete associated with the underground fluid lines. Minor staining was observed on the concrete floor in the former "shop" areas. The concrete in this area appeared to be in good condition.

ENSR did not observe areas of corrosion on the subject property at the time of the site visit.

Drains, Sumps and Oil/Water Separators

ENSR observed one floor drain in the floor of the former restroom area near the center of the building. No significant staining was observed near the drain, and no fluid was observed in the drain.

A storm drain is located at the base of a loading dock outside the northwest corner of the building. The drain appeared to be filled with sand/dirt. No staining was observed.



Mr. Allen reported that no sumps or oil/water separators are located onsite.

Pits, Ponds, or Lagoons

ENSR observed no evidence of pits, ponds or lagoons on the subject property at the time of the site walk-through.

Stressed Vegetation

ENSR observed no stressed vegetation on the subject property at the time of the site walkthrough.

Solid (Non-Hazardous) Waste

No solid waste is currently being generated at the subject property. A former concrete blockwalled dumpster enclosure area is located along the northern property boundary. No significant staining was observed on the concrete pad in the former enclosure area.

Hazardous Waste

Three 55-gallon drums of waste/used oil were observed in the northeast portion of the site. Mr. Allen reported that the drums were not a part of Sears operations and must have been brought on site by the property owner. Mr. Allen and Ms. Colbert reported that to the best of their knowledge, the site was not previously permitted as a hazardous waste generator.

Wastewater

Ms. Colbert reported that sanitary wastewater is discharged to the City of Los Angeles municipal system. No other wastewater was reported to be generated on site.

Wells

ENSR did not observe evidence of wells located on the subject property. Mr. Allen and Ms. Colbert indicated that to the best of their knowledge no wells are located on the subject property.



Septic Systems

ENSR did not observe evidence of a septic system located on the subject property. Mr. Allen and Ms. Colbert indicated that to the best of their knowledge no septic systems are located on the subject property.

Railroad Tracks

ENSR did not observe railroad tracks on the subject property.

Air Emissions

No air emissions or sources were identified during ENSR's site visit.

SUMMARY OF FINDINGS

ENSR performed a site walk-through of the former Sears Product Services Center located at 11961 Sherman Road in North Hollywood, California (subject property). Based solely on the results of the site walk-through and interviews with the site contacts, the following potential environmental concern was identified:

Hydraulic Lift: ENSR identified the presence of an out-of-service hydraulic lift and above
ground hydraulic fluid reservoir located on the northeast portion of the site. Dark
staining was observed on the concrete beneath the reservoir and the lift has not been
abandoned. Ms. Colbert reported that the lift has been out of service for at least ten
years.

STUDY LIMITATIONS

This limited site walk-through consisted exclusively of a site inspection and interview with two Sears contacts. This letter report and all supporting field data, notes, and laboratory test data, where applicable (collectively referred to hereinafter as "information"), were prepared or collected by ENSR for its client, Sears, Roebuck and Co. ENSR's client may release the information to third parties, who may use and rely upon the information at their discretion. However, any use of or reliance upon the information by a party other than specifically named above shall be solely at the risk of such third party and without legal recourse against ENSR, its parent company, or its subsidiaries and affiliates, or their respective employees, officers or directors, regardless of whether the action in which recovery of damages is sought is based upon contract, tort (including the sole, concurrent, or other negligence and strict liability of



ENSR), statute or otherwise. This information shall not be used or relied upon by a party that does not agree to be bound by the above statement.

If you have any questions regarding our report or findings, please feel free to contact either of the undersigned.

Sincerely,

Brenda Miller

Senior Environmental Analyst

Brandon Vineyard Project Manager

Kenneth A. Roth Project Manager

Attachments: Site Location Map

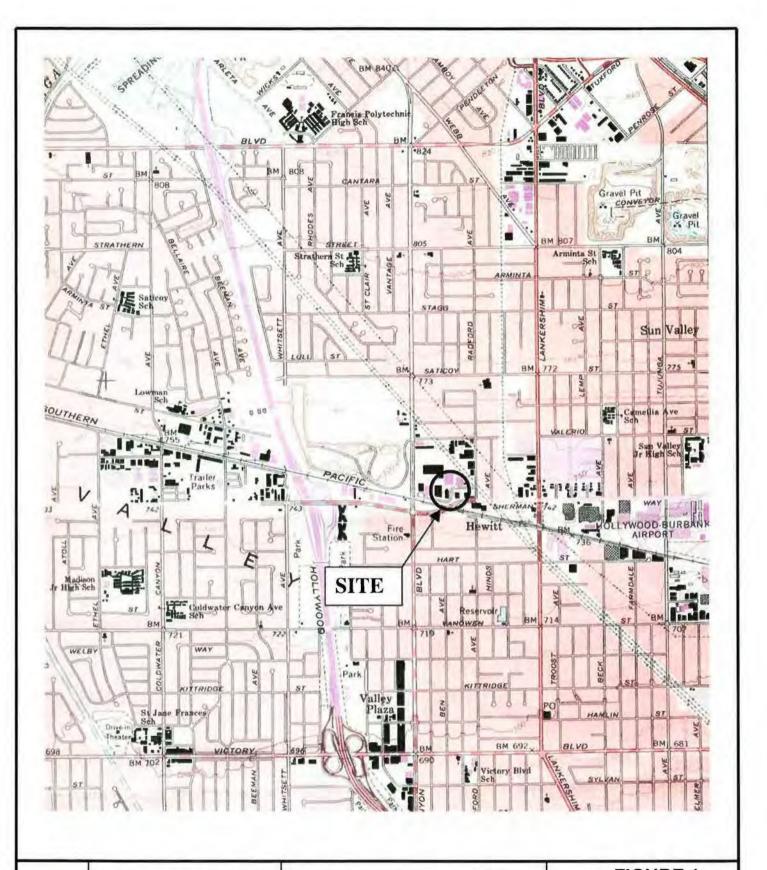
Site Plan

Site Photographs

In Tchell for

Contract

ATTACHMENT A SITE LOCATION MAP





SITE LOCATION MAP

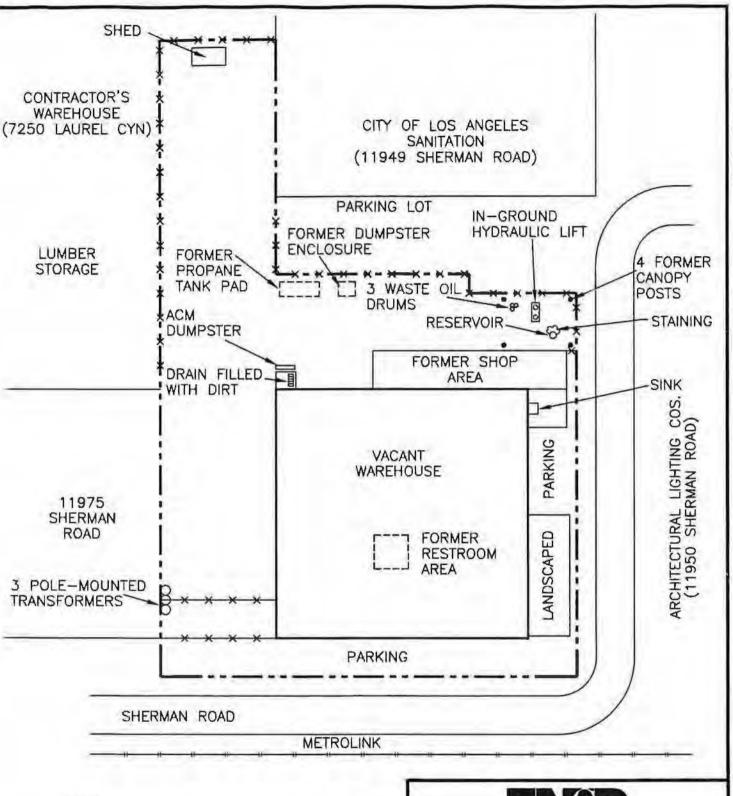
Source: USGS Topographic Quad Van Nuys, California: 1972 Scale 1:24,000 Former Sears Product Services Center 11961 Sherman Road North Hollywood, California FIGURE 1



April 2002

Project No. 05897-073-100

ATTACHMENT B SITE PLAN



LEGEND:

APPROXIMATE PROPERTY BOUNDARY

FENCE





CONSULTING • ENGINEERING • REMEDIATION

FIGURE 2 SITE PLAN

Former Sears Product Services Center 11961 Sherman Road North Hollywood, CA

DRAWN BY: MS DATE: 03/04/02 PROJECT No.:

APPROVED BY: REVISED: 05897-073-100

NOT TO SCALE

ATTACHMENT C SITE PHOTOGRAPHS





Photo 1: View of the front (south) side of the subject property facing north.



Photo 2: View of the east side of the subject property facing northwest.





Photo 3: View of the northwest exterior portion of the subject property facing north.

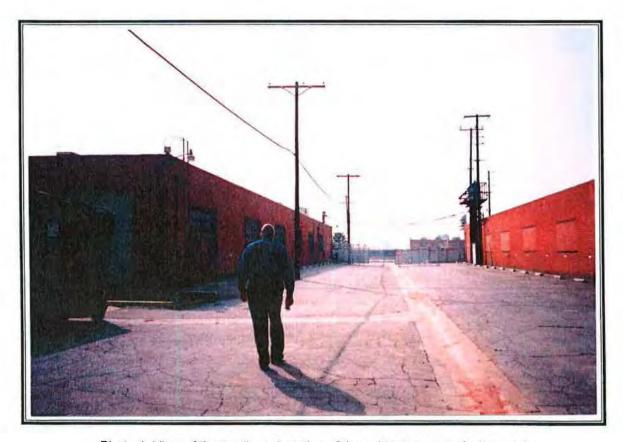


Photo 4: View of the southwest portion of the subject property facing south.





Photo 5: View of west side of building interior facing south.



Photo 6: View of east side of building interior facing south.



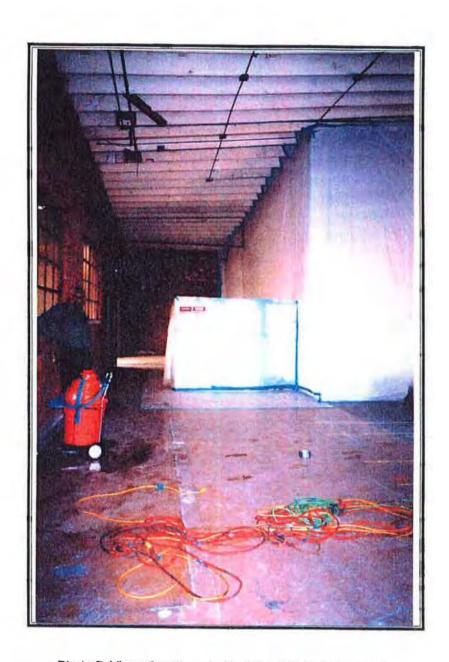


Photo 7: View of north end of building interior facing east.



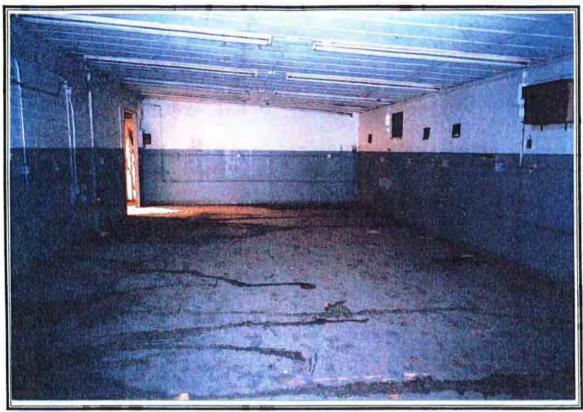


Photo 8: View of northeast former "shop" area facing north.

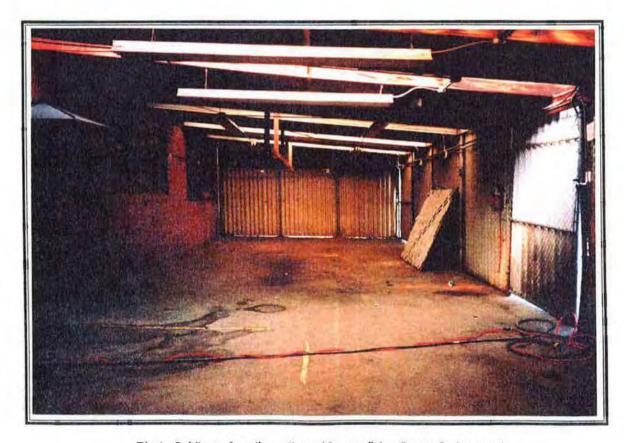


Photo 9: View of north portion of former "shop" area facing west.



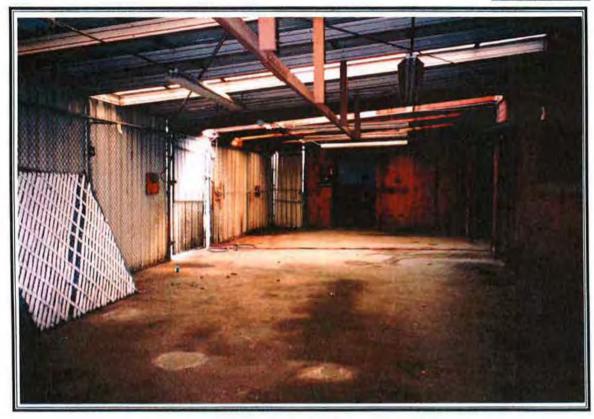


Photo 10: View of north portion of former "shop" area facing east.

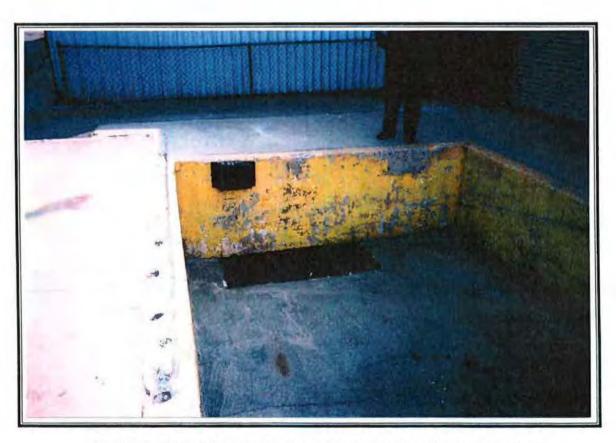


Photo 11: View of storm drain in loading dock at northwest corner of building.





Photo 12: View of former dumpster enclosure along north property boundary.

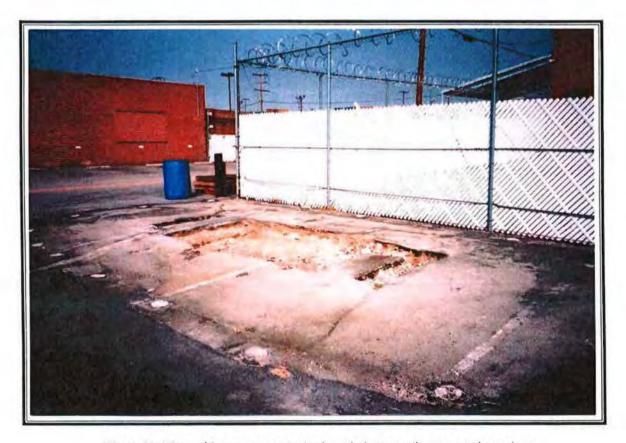


Photo 13: View of former propane tank pad along north property boundary.



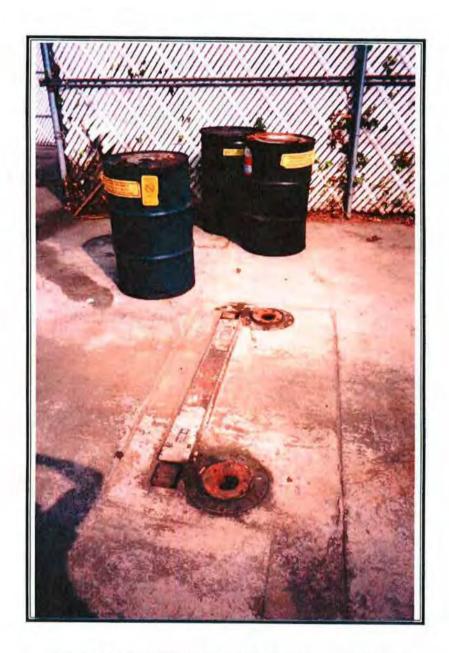


Photo 14: View of waste oil drums and underground hydraulic lift in northeast corner of subject property.



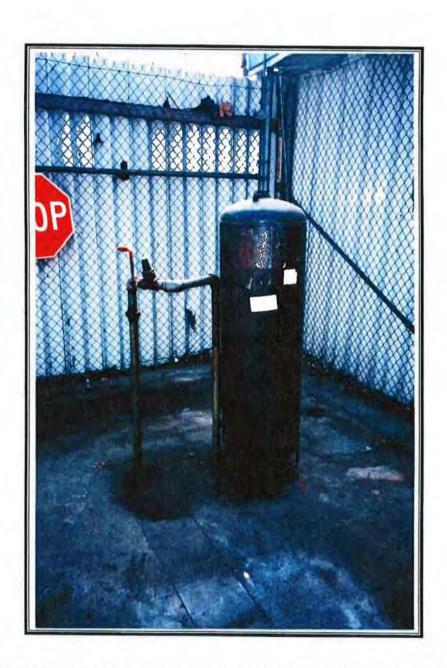


Photo 15: View of hydraulic fluid reservoir in northeast corner of the subject property.





Photo 16: View of asbestos waste dumpster near northwest corner of building.

ATTACHMENT D CONTRACT

ENVIRONMENTAL WORK ORDER ("EWO")

Sears hereby requests Consultant perform the following Services in accordance with the terms and conditions of that certain Environmental Services Agreement dated September 13, 2001, entered into by Consultant and Sears and incorporated herein by reference. Date: February 12, 2002 Sears Location (unit number, address): Former Product Services, Sears Unit #8248, 11961 Sherman Road, North Hollywood, California Site Walk Through of vacant former Product Services General Description of Services: facility. Scope of Work and Specifications: Completion Date: Site visit February 28-March 1, with verbal results by March 5 (if applicable). Lump Sum Cost (including all permit, tax and license fees): (if applicable). Not to Exceed Cost (including all permit, tax and license fees); (if applicable). Invoicing: Invoices for any amounts due Consultant under this EWO shall be forwarded to Sears at the following address: Scars, Roebuck and Co. 3333 Beverly Road, A2-239B Hoffman Estates, IL 60179 The parties have executed this Environmental Work Order on this Bay of Februar SEARS, ROEBUCK AND CO. ENSR Corporation a New York corporation a Delaware corporation By: By: Kenneth A Printed Name: Teresa A. Kec Printed Name: Roth Title: Manager, Environmental Services Title: Project Manager Real Estate / Facilities Printed Name: GAG Title: D. P.T. Martagh - Em



AL, Florence (256) 767-1210 AK, Anchorage (907) 561-5700 AK, Fairbanks (907) 452-5700 CA, Alameda (510) 748-6700 CA. Camarillo (805) 388-3775 CA, Glendale (818) 546-2090 MI. Detroit CA, Irvine (949) 752-0403 CA. Sacramento (916) 362-7100 CA, Santa Ana (949) 756-2667 CO, Ft. Collins (970) 493-8878 NY, Albany Ft. Collins Tox Lab (970) 416-0916 CT, Stamford (203) 323-6620 CT, Willington (860) 429-5323 FL, Jupiter (561) 743-6757 FL, St. Petersburg (727) 898-9591 NC, Raleigh FL, Tallahassee (850) 385-5006 GA, Norcross (770) 381-1836 GA, Savannah OR, Portland (912) 898-0015 IL, Chicago (215) 757-4900 (630) 836-1700

ME, Portland (207) 773-9501 MD, Columbia (410) 884-9280 MA, Air Laboratory (978) 772-2345 MA, Sagamore Beach (508) 888-3900 MA, Westford (978) 589-3000 MA, Woods Hole (508) 457-7900 (734) 458-9900 MN, Minneapolis (952) 924-0117 NJ, Egg Harbor (609) 272-9221 NJ, Piscataway (732) 457-0500 (518) 453-5444 NY, Metro Area (914) 347-4990 NY, Rochester (716) 381-2210 NY, Syracuse (315) 432-0506 NC. Charlotte (704) 338-9495 (919) 872-6600 OH, Cincinnati (513) 985-9186 (513) 772-7800 (503) 224-7338 PA, Langhorne

PA, Pittsburgh (412) 261-2910 SC, Columbia (803) 216-0003 TX, Austin (512) 336-2425 TX, Dallas (972) 509-2250 TX, Houston (713) 520-9900 TX, San Antonio (210) 590-8393 WA, Redmond (425) 881-7700 WI, Milwaukee (262) 523-2040

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Philippines

Venezuela

United Kingdom

Turkey

For fast action or information, www.ensr.com

N. HOLLYWOOD, CALIFORNIA

UNIT #8248- PRODUCT SERVICE

TABLE OF CONTENTS

- 1. Lease dated June 21, 1961 between Simha Lainer and Sara Lainer and Sigmund Loew and Regina Loew ("Landlord") and Sears, Roebuck & Co. ("Tenant").
- 2. Parking Lot Lease dated April 3, 1962 between Simha Lainer and Sara Lainer and Ligmund Loew and Regina Loew ("Landlord") and Sears, Roebuck & Co. ("Tenant").
- 3. Land Lease dated August 22, 1964 between H. Schnakenberg ("Lessor") and Simha Lainer and Sigmund Loew ("Lessee").
- 4. Voided Sublease dated March 19, 1965 between Simha Lainer and Sara Lainer and Ligmund Loew and Regina Loew ("Landlord") and Sears, Roebuck & Co. ("Tenant").
- 5. First Agreement Supplementing Lease dated December 14, 1965 between Simha Lainer and Sara Lainer and Sigmund Loew and Regina Loew ("Landlord") and Sears, Roebuck & Co. ("Tenant").
- 6. Second Agreement Supplementing Lease dated June 16, 1970 between Simha Lainer and Sara Lainer and ("Landlord") and Sears, Roebuck & Co. ("Tenant").
- 7. Third Agreement Supplementing Lease dated July 20, 1971 between Simha Lainer and Sara Lainer and ("Landlord") and Sears, Roebuck & Co. ("Tenant").
- 8. Fourth Agreement Supplementing Lease dated May 5, 1976 between Simha Lainer and Sara Lainer and ("Landlord") and Sears, Roebuck & Co. ("Tenant").
- 9. Fifth Amendment Supplementing Lease dated May 27, 1981 between Lanier Enterprises, ("Landlord") and Sears, Roebuck & Co. ("Tenant").
- 10. Sixth Amendment Supplementing Lease dated November 4, 1985 between Lanier Enterprises, ("Landlord") and Sears, Roebuck & Co. ("Tenant").
- 11. Lease Modification and Extension Agreement dated May 17, 1996 from Sears to Landlord.
- 12. Lease Modification and Extension Agreement dated May 28, 1997 from Sears to Landlord.
- 13. Lease Modification and Extension Agreement dated June 30, 1998 from Sears to Landlord.

- 14. Lease Modification and Extension Agreement dated June 22, 1999 from Sears to Landlord.
- 15. Lease Modification and Extension Agreement dated August 22, 2000 from Sears to Landlord.
- 16. Notice of Termination of Lease dated February 20, 2002 from Sears to Landlord.

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E-1	ROOF,	SOUTH TOILETS	DAVIDSON Nº19	ROOF	"V-BELT	1425	³⁄8		928	3975	.114	1/6	1750	120	1	60
£ 2	ROOF	CENTRAL TOILETS	DAVIDSON Nº19	ROOF	"V-BELT"	1575	5/8		1085	4650	.188	1/4	1750	120	1	60
E·3	ROOF	TEL.EQUIP. ROOM	AMERICAN BLOWER "UTILITY SET" 90AZ	5ISW-THD	"V-BELT"	500	1/4	1100	640	1510		1/6	1725	120	1	60
E-4	ROOF	NORTH TOILETS	AMERICAN BLOWER "UTILITY SET" 90 AZ	SISW-THD	"V-BELT"	600	3/8	1300	785	1850		1/6	1725	120	1	60
E-5	ROOF	SNACKBAR	DAVIDSON Nº 28	ROOF	"V-BELT"	3500	5/8		722	4650	.422	1/2	1750	440	3	60
E-6	ROOF	LIGHTING DISPLAY & STOCK, AREA	DAVIDSON Nº62	ROOF	"V-BELT"	21.150	1/2		325	4650	2.05	3	1750	440	3	60
E-7																
E-8	WEST WALL CENTER OF FIRST FLOOR	TAILOR SHOP	AMÉRICAN BLOWER UTILITY 165-CZ	SISW-BIID	"V-BELT"	2,340	1/4	1500	409	1760		1/3	1750	120	1	60
E-9	PENTHOUSE ROOF	ROOF MACH, ROOM	DAVIDSON Nº50	ROOF	"V-BELT"	16,400	½8 .		407	4650	1,10	2	1750	440	3	60
E-10	_															
E-11	FIRST FLOOR HORTH, OVER SHOW WINDOW & 8	POPCORN STAND	AMERICAN BLOWER "UTILITY SET" 90 AZ	SISW-BHD	"V-BELT"	517	У ₄	1100	640	1510		1/e	1750	120	1	60
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NA NEC'D

TYPE

SIZE

CHILLED WATER PUMPS

(Ft.)

GASH MALD

H.P. R.AM. VOLT. & CYCLE REGO TYPE

2 CENTRIE 6CEV 50 1300 110 50 1750 440 3 60 2 CENTRIE 6CEV 40 1300 80 40 1750 440 3 60

CENTRIFUGAL REFRIGERATION COMPRESSORS

10 CAPACITY SUCTION DISCHARGE B.H.R. R.P.M. MOTOR HD R.P.M. CURRENT CHARACTERISTICS 1 416 3 34.7 98.6 398 5300 400 1200 440 - 3 - 60 MOTOR SHALL NOT EXCEED 0.795 KW/TON.
COMPRESSOR SHALL NOT EXCEED 0.96 BH.P/TON.

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789

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1	66 2-ROW	800	15 in.	18 in	86,1	430	50	60	115	BH-9
·										

LEGEND & SYMBOLS

TOP GRILLE WITH SEPARATE VELOCITROL DAMPER, TOP REGISTER.
COTTOM REGISTER.
CEILING XEGISTER.
CEILING TYPE SUPPLY OUTLET.
NECK DIAMETER OF CEILING TYPE OUTLET.
THERMOSTAT.
BUCTSTAT.
APPROVED FIRE DAMPERS.
CHILLED WATER PIPING.
CHILLED WATER RETURN.
STEAM SUPPLY.
CONDENSATE RETURN.
GAS.
OIL.

CAS.
OIL.
OIL RETURN.
VENT.
HECK DIAMETER OF HALF-ROUND CEILING OUTLET.
CONDENSER WATER.
CONDENSER WATER.
TEMPERATURE RETURN.
TEMPERATURE REGULATING VANC.

GENERAL NOTES

CONDENSER WATER PUMPS

GPM HEAD

(Ft.)

SIZE

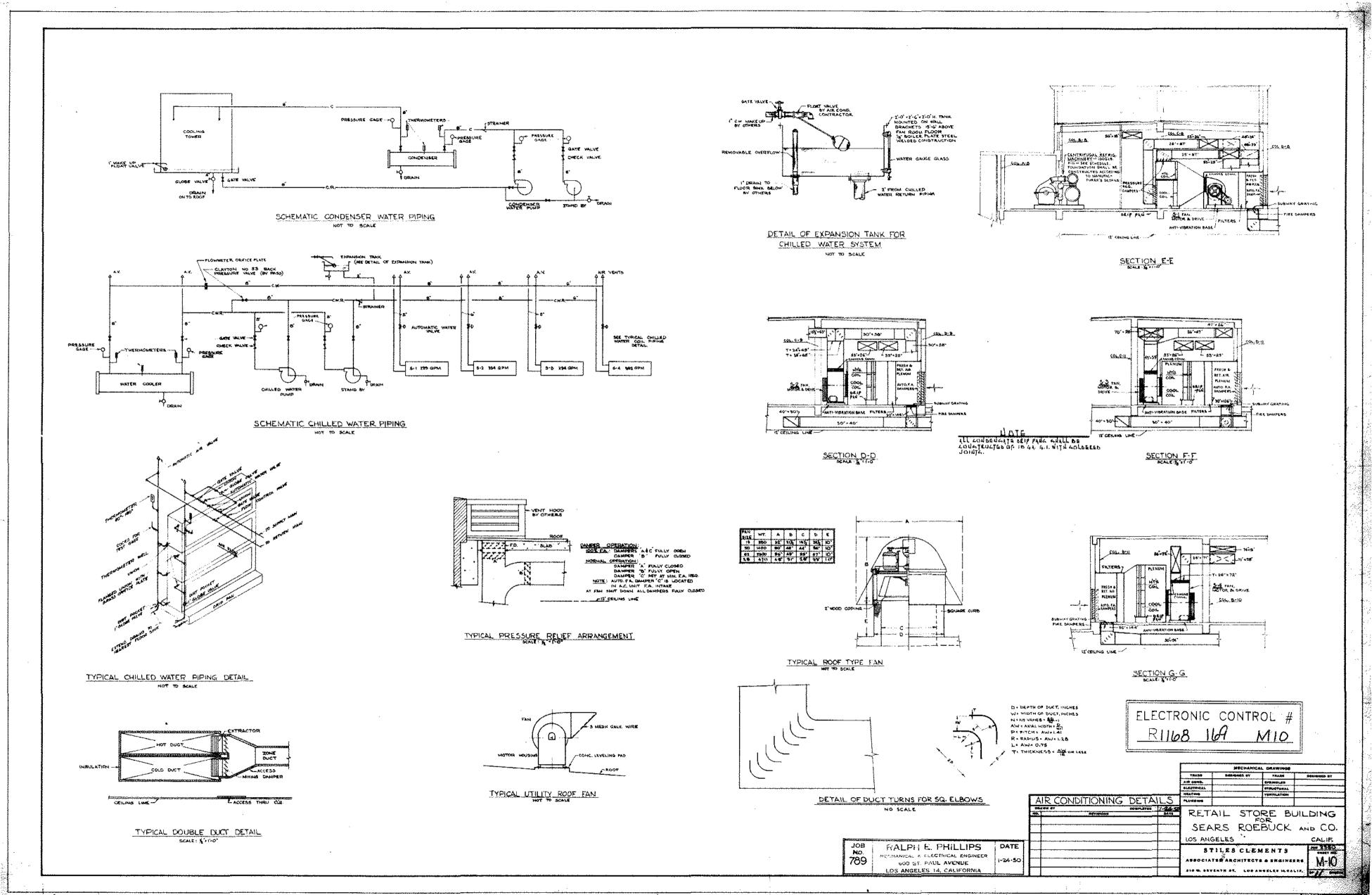
PUMP MOTOR

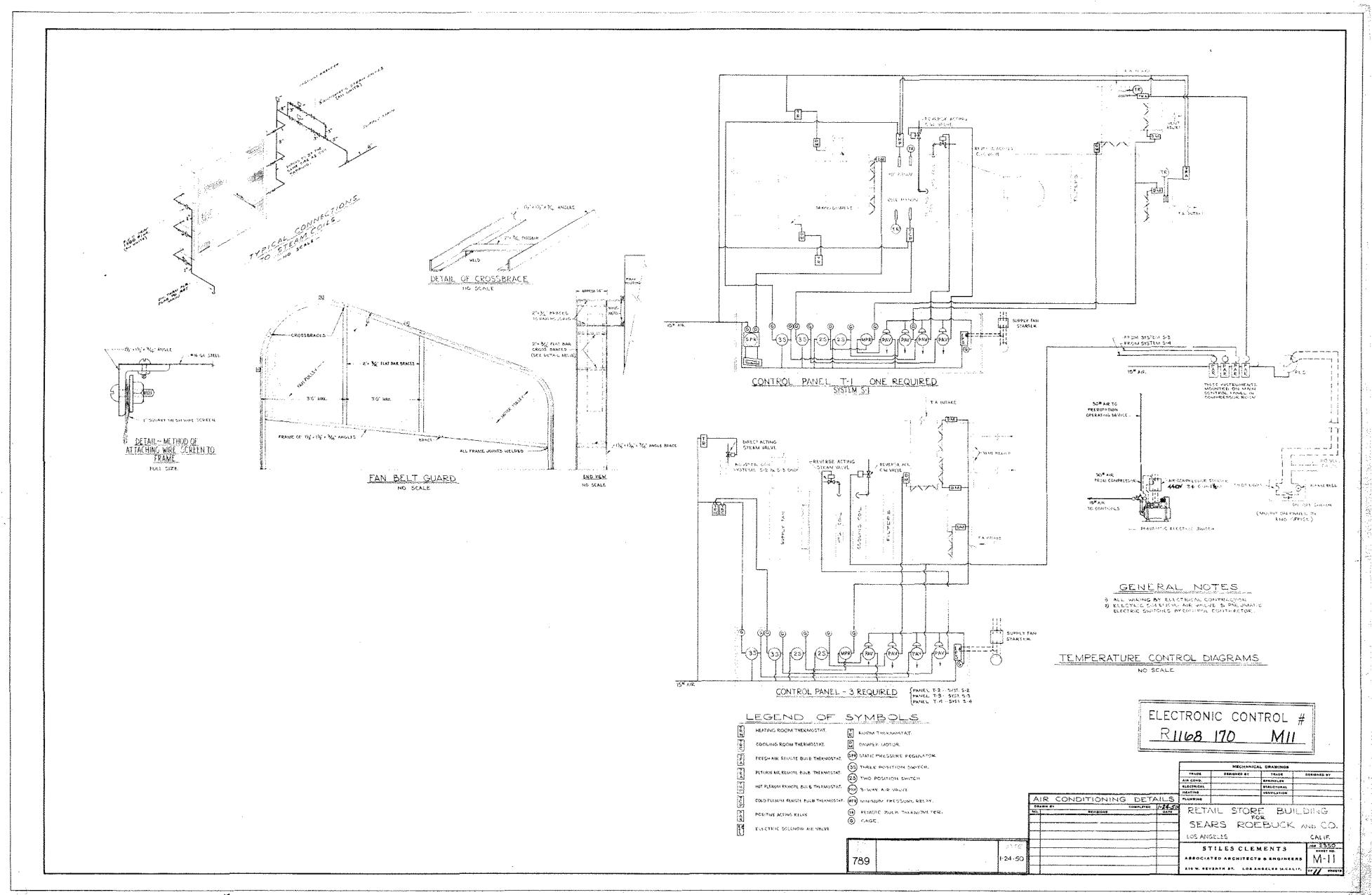
HR RAM VOLT. & CYCLE

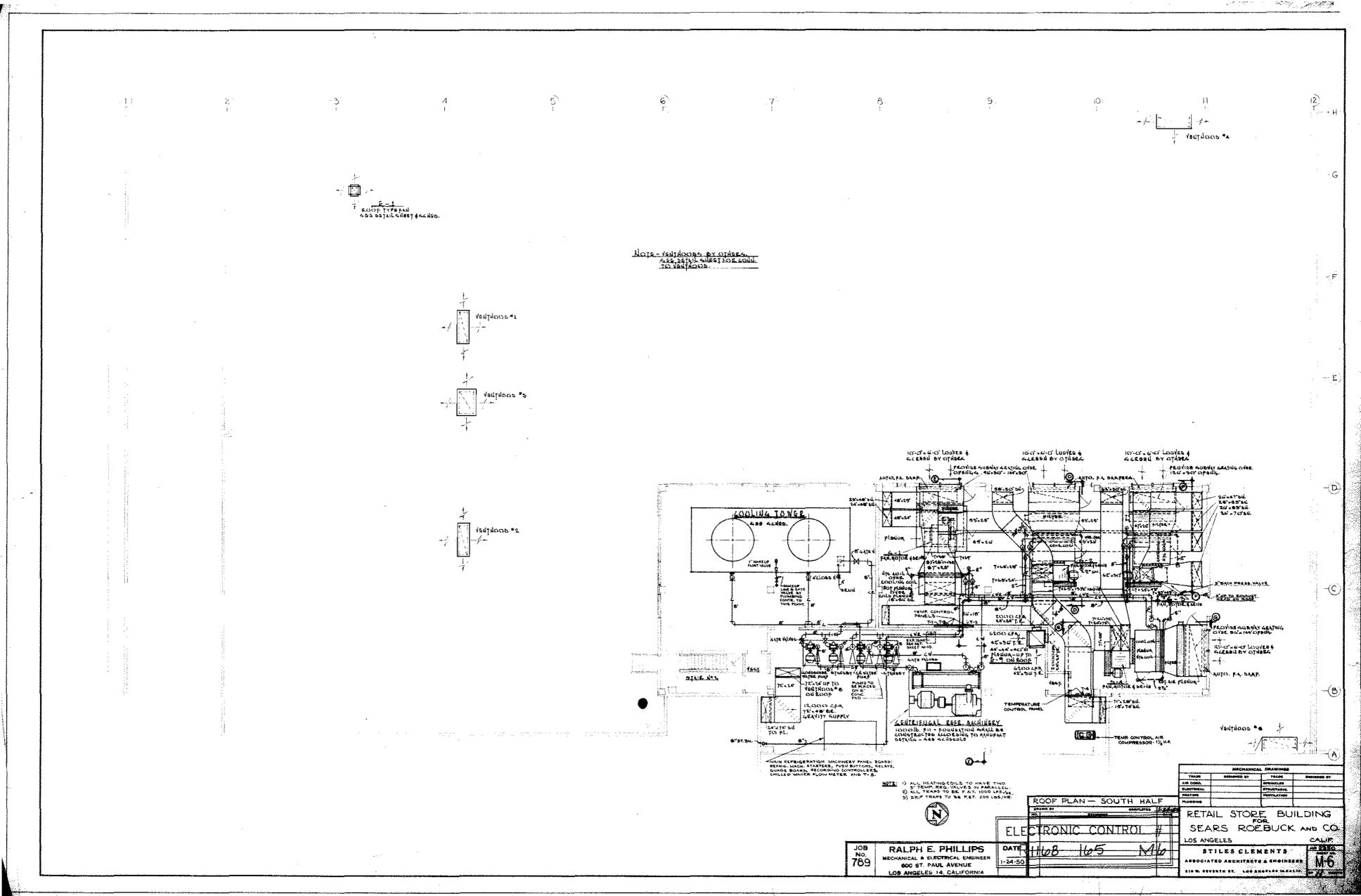
PROVIDE & INSTALL FIRE DAMPERS OF APPROVED DESIGN & CONSTRUCTION WHERE REQUIRED BY LOCAL ORDINANCE.

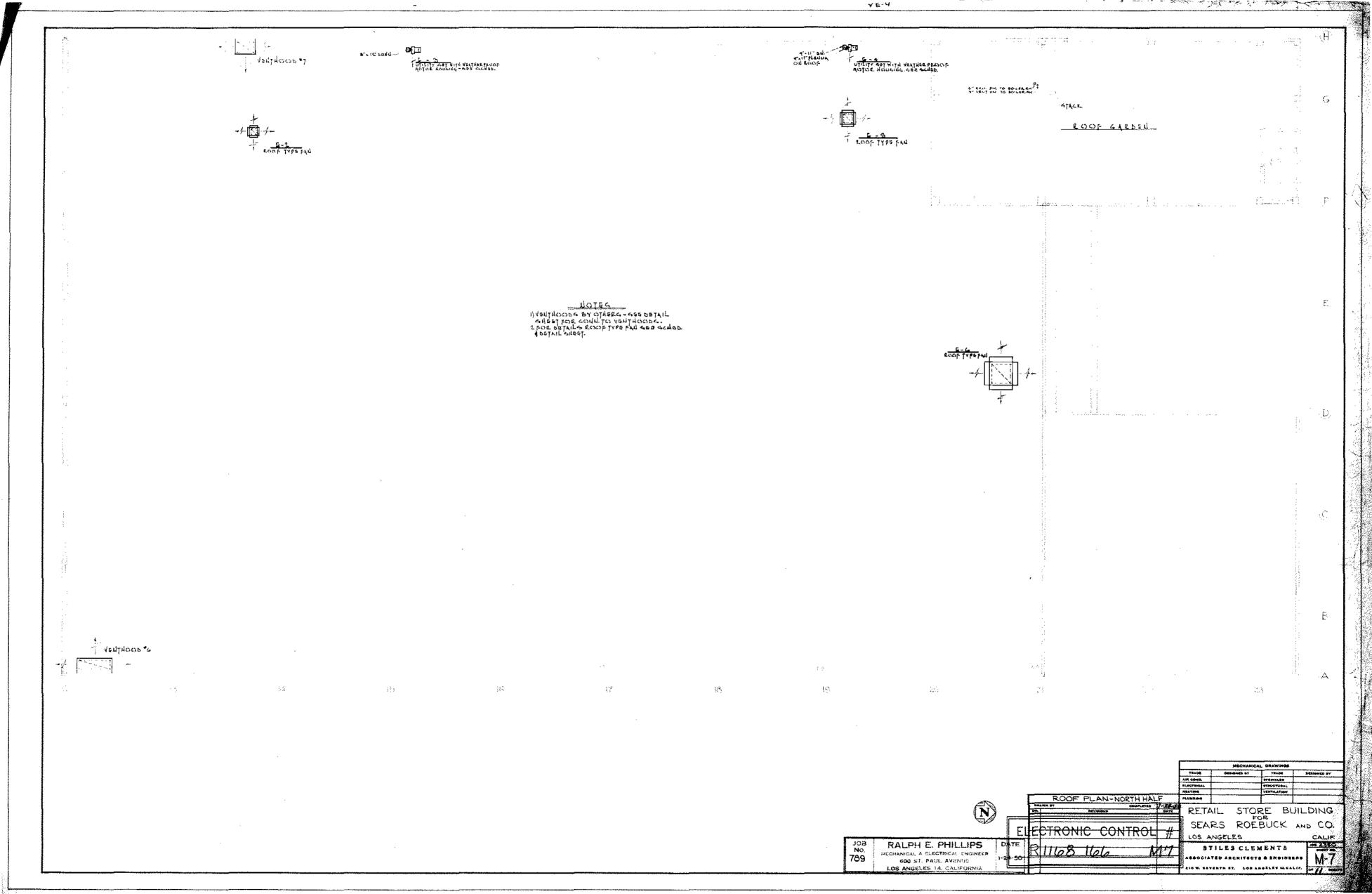
ELECTRONIC CONTROL # R1168 160 AIR COND. EQUIPMENT SCHEDULES

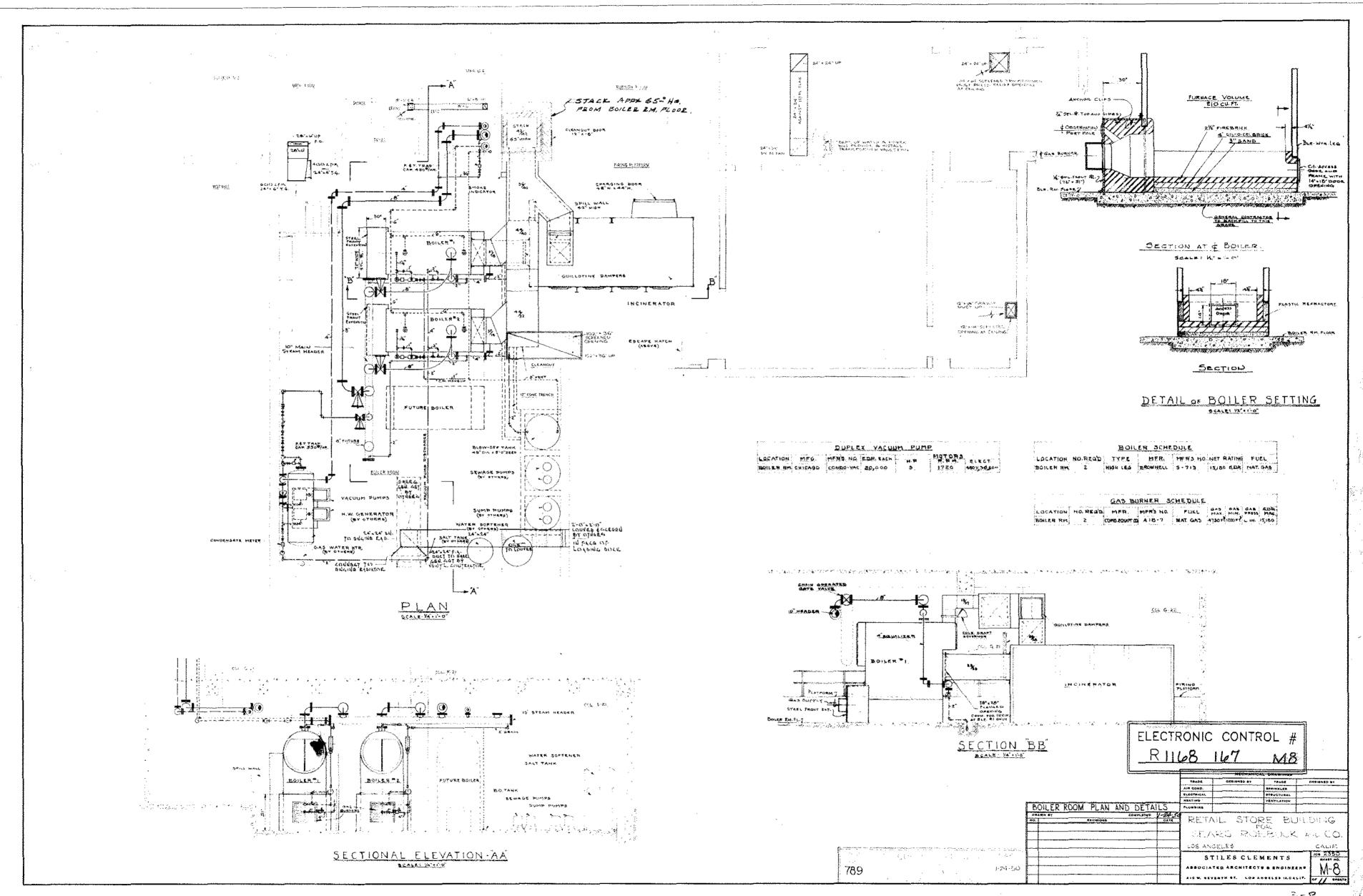
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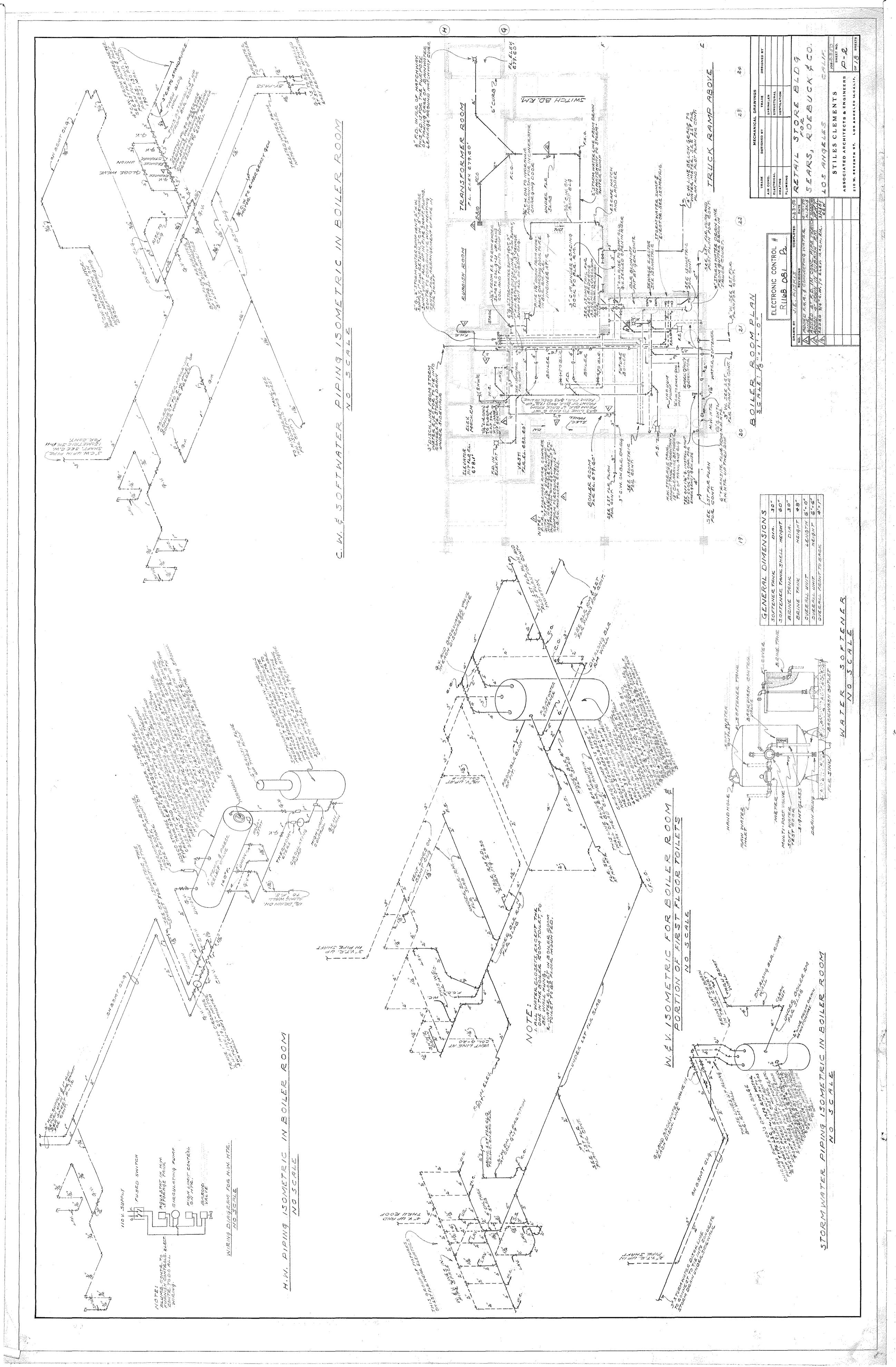












CT-531

PRODUCT NAME: CT-531

MSDS NUMBER: 032206CT531

EMERGENCY PHONE #'S:

800-255-3924 (CHEMTEL)

PAGE NUMBER: 1 OF 4

PRODUCT CODE: Cooling Water Treatment

> MSDS DATE: 03/22/2006



Advanced Chemical Technology, Inc.

8728 Utica Avenue, Rancho Cucamonga, CA 91730 USA Phone (800) 527-9607 / Fax (909) 980-9366 Web: http://www.actglobal.net Email: act@actglobal.net

Personal Protection

HEALTH O Slightly Hazardous FLAMMABILITY 0 Will Not Burn REACTIVITY 0 Stable B

1. IDENTIFICATION

Chemical Name: CT-531

Chemical Family: Cooling Water Treatment **DOT Information:** NON REGULATED

2. PHYSICAL DATA

Appearance: Pale Yellow liquid

Odor Characteristics: Bland

6.75

Viscosity: ND

Specific Gravity (Water = 1): 1.075

Vapor Density (Air = 1): 0.62 @ 68F

Vapor Pressure: 23.756 mm Hg

> **Boiling Point:** 212 F

Freezing Point: ND

Evaporation Rate (Water = 1):

Solubility in Water: Miscible

3. INGREDIENTS - HAZARDOUS

CAS No. **OSHA PEL ACGIH TLV** Components Approx % 2809-21-4 Hydroxyethylidene diphosphonic acid NE NE <10 Benzotriazole 95-14-7 NE NE <4

4. FIRE AND EXPLOSION HAZARD DATA

Flash Point:

Flammable Limits in Air % by volume: Lower NA Upper NA

> Extinguishing Media: Water spray, foam, carbon dioxide, dry chemical

Special Fire Fighting Procedures: None Unusual Fire & Explosion Hazards: None

5. HEALTH HAZARD DATA

Effects of Overexposure:

Inhalation: Not a route of exposure

Skin Contact: May cause irritation or redness on contact with skin

Eye Contact: Causes irritation of eyes

Ingestion: Swallowing large quantities causes headaches, nausea, vomiting, stomach cramps, and

diarrhea

Delayed Effects: None

Medical Conditions Aggravated by

Exposure: None



Advanced Chemical Technology, Inc.

8728 Utica Avenue, Rancho Cucamonga, CA 91730 USA Phone (800) 527-9607 / Fax (909) 980-9366

Web: http://www.actglobal.net Email: act@actglobal.net

MATERIAL SAFETY DATA SHEET PAGE #: 2 OF 4

PRODUCT NAME: CT-531

MSDS NUMBER: 032206CT531

MSDS DATE: 03/22/2006

PRODUCT CODE: Cooling water treatment

6. FIRST AID MEASURES

Inhalation: If breathing stops, give artificial respiration. Call a physician immediately.

Skin Contact: Immediately remove clothing under a safety shower. Flush all affected areas with large amounts

of water for at least 15 minutes.

Eye Contact: Immediately flush the eyes with large quantities of running water for a minimum of 15 minutes.

Obtain medical attention immediately.

Ingestion: Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting.

Give large quantities of water. (If available, give several glasses of milk.) If vomiting occurs

spontaneously, keep airway clear and give more water. GET MEDICAL ATTENTION

IMMEDIATELY.

Notes to Physician: None

7. REACTIVITY DATA

Stability: Stable

Incompatibility: Acids, oxidizing materials, halogen compounds, copper, aluminum, and zinc

Hazardous Combustion or

Decomposition Products: Carbon monoxide, carbon dioxide, ammonia, and oxides of nitrogen

Hazardous Polymerization: Will not occur

Conditions to Avoid: Do not mix with other industrial chemicals

8. SPILL OR LEAK PROCEDURES

Personal Precautions: Wear goggles, rubber boots and gloves

Environmental Precautions: Keep out of sewers, drains, surface waters, and soil

Method for Cleanup: For small spills mop or wipe up. For large spills, contain by diking with soil or other absorbent

material.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: None required

Eye Protection: Safety glasses with side shields recommended

Skin Protection: Rubber gloves

Other Clothing: Normal work clothes

Other Equipment: None

Engineering Controls: General mechanical ventilation for enclose areas.



Advanced Chemical Technology, Inc.

8728 Utica Avenue, Rancho Cucamonga, CA 91730 USA Phone (800) 527-9607 / Fax (909) 980-9366

Web: http://www.actglobal.net Email: act@actglobal.net

MATERIAL SAFETY DATA SHEET PAGE #: 3 OF 4

PRODUCT NAME: CT-531

MSDS NUMBER: 032206CT531

MSDS DATE: 03/22/2006

PRODUCT CODE: Cooling water treatment

10. HANDLING AND STORAGE

Storage Precautions: Keep container closed when not in use. Store in a protected location.

Handling Precautions: Rinse container before disposal. Have an eye wash station in work area.

11. REGULATORY INFORMATION

RCRA Status

Not regulated

CERCLA

Not regulated

SARA/Title III - Section 302 Emergency Planning Notification/Threshold Planning Quantities

This product does not contain a Section 302 substance subject to Emergency Planning Notification/Threshold Planning Quantities

SARA/Title III - Section 304 Emergency Notification Reporting.

This product does not contain a Section 304 listed hazardous substance for Emergency Release Notification

SARA/Title III - Section 311/312 Hazardous Categories

No hazardous

SARA/Title III - Section 313 Toxic Chemical Release Reporting

This product does not contain a Section 313 listed toxic chemical subject to release reporting requirements

TSCA Inventory Status

All chemical components are listed on TSCA Inventory.

California Proposition 65 Status

This product does not contain chemicals currently on the California list of know carcinogens and/or reproductive toxins

12. TOXICOLOGICAL INFORMATION

Acute Data: Product is considered to have a low order of toxicity

Reproductive / Teratology Data NE

13. ECOLOGICAL INFORMATION

Fate in the Environment: All components will degrade in 60 days in the presence of sunlight and oxygen

14. DISPOSAL CONDITIONS

Procedures: Dispose of all waste according to Federal, State, and Local regulations

15. TRANSPORTATION INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation

US DOT Non-Regulated



Advanced Chemical Technology, Inc. 8728 Utica Avenue Rancho Cucamonga, CA 91730 800-527-9607

MATERIAL SAFETY DATA SHEET PAGE #: 4 OF 4

PRODUCT NAME: CT-531

			Health	Fire	Reactivity		Specific Hazard
ugges	sted NFPA Rating:		0	0	0		NONE
13	Health Hazard (Blue)		Fire Hazard (Red)		Reactivity (Yellow)		Specific Hazard (White)
4- 3- 2- 1- 0-	Deadly Extremely Hazardous Hazardous Slightly Hazardous Non Hazardous	4- 3- 2- 1- 0-	Flash Points Below 73 F Below 100F Below 200 F Above 200 F Will Not Burn	4- 3- 2- 1- 0-	May detonate Shock & heat may deton Violent chemical change Unstable if heated Stable		OX Oxidizer ACID Acid ALK Alkali COR Corrosive
			Health	Fire	Reactivity	7	Protective Equipment Guide
ugges	sted HMIS Rating:		0	0	0		В
	Health Hazard (Blue)	į,	Fire Hazard (Red)		Reactivity (Yellow)	3	Protective Equipment Guide (White)
4-	Extreme: Highly	4-	Extreme: Extremely	4-	Extreme: Explosive at	A-	Safety glasses
	Toxic. May be fatal on short term		flammable gas or liquid. Flash Point		room temperature.	B-	Safety glasses, gloves
	exposure. Protective equipment required.	H	below 73 F.			C-	Safety glasses, gloves, protective apron
3-	Serious: Toxic. Avoid inhalation or	3-	Serious: Flammable. Flash point 73 F to	3-	Serious: May explode if shocked, heated under	D-	Face shield, gloves, protective apron
L	skin contact.		100 F.		confinement or mixed with water.	E-	Safety glasses, gloves, dust mask
2-	Moderate: Moderately toxic. May be harmful if inhaled or absorbed.	2-	Moderate: Combustible. Requires moderate	2-	Moderate: Unstable, may react with water.	F-	Safety glasses, gloves, protective apron, dust mask
	innaled of apsorbed.		heating to ignite. Flash Point 100F to 200F.			G-	Safety glasses, gloves, vapor respirator
1-	Slight: Slightly toxic. May cause slight irritation.	1-	Slight: Slightly combustible, Requires strong	1-	Slight: May react if heated or mixed with water.	H-	Splash goggles, gloves, protective apron, vapor respirato
	mination.		heating to ignite.		water.	1-	Safety glasses, gloves, dust and vapor respirator
0-	Minimal: All chemicals have some degree of toxicity.	0-	Minimal: Will not burn under normal conditions.	0-	Normally stable: Does not react with water:	Je	Splash goggles, gloves, protective apron, dust and vapor respirator
	- Committee			1		K-	Airline respirator, gloves, protective suit, boots
						Х-	Ask your supervisor for special handling instructions

NA = Not Applicable

ND = Not Determined

NE = Not Established

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Advanced Chemical Technology makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, Advanced Chemical Technology will not be responsible for damages of any kind resulting from the use of or reliance upon such information. No representations, or warranties, either expressed or implied or merchantability fitness for a particular purpose or of any other nature are made hereunder with respect to the information set forth herein or to the product to which the information refers.



STABROM® 909 Biocide

Material Safety Data Sheet

Revision Date: 20-Nov-2009

Supersedes 22-Sep-2009

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name STABROM® 909 Biocide

Chemical Name Proprietary.

Chemical Family Stabilized bromine biocide, aqueous solution

CAS-No Mixture

Recommended use Water treatment chemical

Company Albemarle Corporation NFPA HMIS

451 Florida Street

Baton Rouge, LA 70801 Health 3 3

Emergency Telephone Numbers 225-344-7147 Flammability 0 0

For Non-Emergency 800-535-3030 Physical Hazards 0 0

2. HAZARDS IDENTIFICATION

Emergency Overview

Corrosive - causes irreversible eye damage

Causes skin burns Harmful if swallowed Harmful in contact with skin

Can decompose exothermically at elevated temperatures (see Environmental Protection, Storage Requirement Section for details)

uc

Potential Health Effects

Eyes Possible risks of irreversible effects.
Skin Causes burns. Harmful in contact with skin.

In the event of fire and/or explosion do not breathe fumes. Not expected to be acutely toxic.

Ingestion Harmful if swallowed.

See Section 11 for additional Toxicological information.

Occupational Exposure Limit See Section 8

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Halogenated complex		18
Sodium hydroxide	1310-73-2	<10

4. FIRST AID MEASURES

Ad Lib If medical advice is needed: Have product container or label at hand.

Eye contact If in eyes, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove

contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison

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control center or doctor for treatment advice.

Skin Contact If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of

water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation Move to fresh air.

Ingestion If swallowed, Call a physician or Poison Control Centre immediately. Have person sip a

glass of water if able to swallow. Do not induce vomiting without medical advice. Never give

anything by mouth to an unconscious person.

Notes to Physician Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE-FIGHTING MEASURES

Combustion/explosion hazards Not available.

Suitable Extinguishing Media Not required

Hazardous Combustion Products Bromine. Chlorine

Protective Equipment and Precautions for Firefighters

In the event of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Ensure adequate ventilation...

Environmental precautionsContain any spill with dikes or absorbents to prevent migration and entry into sewers or

streams. Large spills should be collected mechanically (remove by pumping) for disposal. May require excavation of contaminated soil. Take up small spills by first diluting with water and then using a dehalogenating agent such as sodium thiosulfate

solution.

Methods for Clean-up Soak up with inert absorbent material (e.g. sand, silica gel, universal binder, sawdust).

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing.

Storage Avoid freezing, excessive heat or exposure to light, especially direct

sunlight. If heating is necessary to prevent freezing, care must be taken to prevent overheating. Precautions should be taken to ensure that the average product temperature is maintained below 110F. Temperature monitoring is recommended. At elevated temperatures, self-heating can lead to vigorous gas generation and over-pressurization of storage containers if appropriate controls are not in place. Avoid exposure of this product to incompatible materials/chemicals (see Reactivity Data section). Use of incompatible materials can promote the exothermic decomposition of the product. In extreme cases, this could result in vigorous gas formation and over-pressurization of the storage container. STORAGE CONTAINER: Vented and opaque containers: As the product ages, activity is gradually lost and pressure can build-up in the headspace (nitrogen); therefore, the product should be stored in vented containers. Product should also be stored in opaque containers to prevent exposure to light. To maximize product shelf life, store the product in an opaque container, in a cool, dry, well-ventilated area.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	CAS-No	Weight %	ACGIH TLV (TWA)	ACGIH (STEL or Ceiling)	OSHA PEL (TWA)	OSHA (STEL or Ceiling)
Sodium hydroxide	1310-73-2	<10		2mg/m ³ (Ceiling)	2mg/m ³	2mg/m³ (Ceiling)

Engineering ControlsUse only in well-ventilated areas.

Personal Protective Equipment

Eye/face Protection Chemical goggles or face shield with safety glasses.

Skin Protection Wear protective gloves/clothing.

Hand protection Gloves resistant to chemical permeation.

Other information Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Flash point Not applicable. Flammable limits (LEL, UEL) No data available Form Liquid Vapor pressure 19 mmHg(25°C) Color Yellow. Density 1.29-1.37 g/ml(25°C) Odor Mild. Sweet. Vapor density No data available

pH12.4(min.)Water SolubilityMiscible.Boiling Point106°CMelting/freezing point0 °C / 32°FViscosity, dynamic~2.7cPs(25°C)Viscosity, kinematic~2cSt(25°C)

Oxidizing Properties Oxidizer

10. STABILITY AND REACTIVITY

Stability Stable.

Conditions to Avoid Protect from light. Extremes of temperature and direct sunlight. Keep away from heat.

Freezing.

Materials to avoid This product is strongly basic and an oxidizing agent. Avoid contact with alcohols,

aldehydes, strong reducing agents, strong oxidizers, acids, ammonia-containing products,

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and common metals such as steel, aluminum, iron and copper. Use of incompatible

materials can promote the exothermic decomposition of the product.

Hazardous decomposition products None under normal use.

Hazardous PolymerizationNone under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Effects

Eye contact Possible risks of irreversible effects.

Skin contact Causes burns.

Ingestion Harmful if swallowed.

 LD50 Oral:
 2491 mg/kg

 LD50 Dermal:
 >2000 mg/kg

 Inhalation LC50
 > 20.37mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

LC50 3.8 mg whole material/L; 96-hour; Bluegill Sunfish Lepomis Macrocirus

Ecotoxicity effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose in a safe manner in accordance with local/national regulations.

14. TRANSPORT INFORMATION

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DOT

Proper Shipping Name Corrosive Liquids, Basic, Inorganic, N.O.S. (Halogenated Complex, Sodium Hydroxide)

Hazard Class 8 UN No. 3266 Packing Group III

Description UN 3266 Corrosive liquid, Basic, Inorganic, N.O.S. (Halogenated complex, Sodium

hydroxide), 8, III

IMDG/IMO

IMO Class8Packing GroupIIIUN-No3266IMO Labelling and Marking8

Proper Shipping Name Corrosive liquid, Basic, Inorganic, N.O.S. (Halogenated complex, Sodium hydroxide)

EmS F-A, S-B

Marpol - Annex II Not determined Unregulated

Transport Description UN 3266 Corrosive liquid, Basic, Inorganic, N.O.S. (Halogenated complex, Sodium

hydroxide), 8, III

IATA/ICAO

IATA/ICAO Class8Packing GroupIIIUN-No3266IATA/ICAO Labelling8

Passenger AircraftForbiddenCargo aircraft onlyForbidden

Proper shipping name
Transport Description

Corrosive liquid, Basic, Inorganic, N.O.S. (Halogenated complex, Sodium hydroxide)
UN 3266 Corrosive liquid, Basic, Inorganic, N.O.S. (Halogenated complex, Sodium

hydroxide), 8, III

15. REGULATORY INFORMATION

International Inventories	TSCA	DSL	NDSL	AICS	EINECS	ELINCS	ENCS	KECL	PICCS	CHINA	NZIoC
STABROM® 909 Biocide	-	-	-	X	-	-	-	Χ	Χ	Х	X

(X) Complies (-) Does not Comply

TSCA Statement

THIS MATERIAL IS EXEMPT FROM THE TOXIC SUBSTANCES CONTROL ACT (15 USC 2601-2629)...

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Chronic Health Hazard No
Acute Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Reportable and Threshold Planning Quantities

The following components have RQs and/or TPQs under SARA and/or CERCLA

Component	CAS-No	Weight %	SARA 302 RQ, lbs	CERCLA RQ, lbs	SARA 302 TPQ, lbs
Sodium hydroxide	1310-73-2	<10		1000	

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State Regulations

This product contains the following chemicals regulated in the states listed below.

Component	CAS-No	California Prop. 65	Massachusetts	New Jersey	Pennsylvania
Sodium hydroxide	1310-73-2		Listed.	Listed.	Listed.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazards

E Corrosive material D2B Toxic materials

16. OTHER INFORMATION

Prepared By Health & Environment Department

Albemarle Corporation

FOR ADDITIONAL NONEMERGENCY PRODUCT INFORMATION, CONTACT:

HEALTH AND ENVIRONMENT DEPARTMENT

ALBEMARLE CORPORATION

451 FLORIDA ST.

BATON ROUGE, LA. 70801

(800) 535-3030

The information contained herein is accurate to the best of our knowledge. The Company makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances.

MSDS

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Date-Issued: 10/03/1997
MSDS Ref. No: BBIQ61754
Date-Revised: 11/09/2000

Revision No: 4

Super Ox-II

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Super Ox-II

GENERAL USE: Industrial water treatment. CHEMICAL FAMILY: Chlorinated Isocyanurates

MANUFACTURER

Bio-Lab, Inc.
BioLab Water Additives Division
P.O. Box 1489
Decatur, GA 30031
Customer SERVICE: (800) 600-4523

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (Transportation) (800) 424-9300 Poison Control Center (Medical)(877) 800-5553

COMMENTS:

EPA Registration Number: 5185-54

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name

CAS# Wt.%

Sodium dichloro-s-triazinetrione

2893-78-9

97

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: White, granular material

IMMEDIATE CONCERNS:

DANGER: Highly Corrosive: Causes skin and eye damage. May be fatal if swallowed. Do not get in eyes, on skin, or on clothing. Wear goggles or safety glasses and rubber gloves when handling this product. Irritating to nose and throat. Avoid breathing dust and fumes. Remove contaminated clothing and wash before reuse.

POTENTIAL HEALTH EFFECTS

EYES:

Corrosive. Contact with dust or vapors can cause irritation, tearing, redness and pain, which may lead to blurred vision, severe tissue burns and even blindness. Avoid contact with eyes.

SKIN:

Corrosive. Contact with skin can cause skin imitation which may result in tissue burns if not removed promptly. Avoid contact with skin.

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INGESTION:

May cause burning of mouth, throat and esophagus, abdominal distress and severe irritation, possibly leading to corrosion of the digestive tract.

INHALATION:

Breathing dust or fumes may produce throat and respiratory tract initation. Avoid breathing dust or fumes.

CHRONIC:

There are no known chronic hazards.

ROUTES OF ENTRY:

Skin Contact, Inhalation, Ingestion, Eye Contact.

4. FIRST AID MEASURES

EYES:

If in eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

SKIN:

If on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

INGESTION:

If swallowed: Drink promptly large quantities of water. Avoid alcohol. Call a physician or poison control center immediately.

INHALATION:

If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

NOTES TO PHYSICIAN:

Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not Applicable AUTOIGNITION TEMPERATURE: Not Applicable

GENERAL HAZARD:

This product, if heated by an outside source to temperatures above 240 C (464 F), will undergo vigorous self-sustaining decomposition with the evolution of heat and dense noxious gases. In addition, when in contact with another combustible material, this product will increase the burning rate of the combustible material. When ignited, will burn with the evolution of noxious chlorine containing gases.

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EXTINGUISHING MEDIA: 2

In case of fire or smoke, call the fire department. Do not attempt to extinguish the fire without a self-contained breathing apparatus (SCBA). Do not let the fire burn. Flood with copious amounts of water. DO NOT use ABC or other dry chemical extinguishers since there is the potential for a violent reaction.

EXPLOSION HAZARDS:

Nitrogen trichloride can be generated slowly by the reaction of small quantities of water with a high concentration of this product. Nitrogen trichloride can present an explosion hazard.

Immediately after a fire has been extinguished, check for wet or damp material. Any spilled material from burned or broken containers should be assumed contaminated. Neutralize to a non-oxidizing material for safe disposal. Do not attempt to re-close broken containers, even for movement to the disposal area. They should be left open to disperse any nitrogen trichloride that may form.

Material which appears undamaged except for being damp on the outside, should be opened and inspected immediately. If the plastic liner (where applicable) of the container is damaged or the material is damp, the material should be chemically treated if allowable, to a non-oxidizing material for safe disposal.

Bulging containers require extreme care. Contact the fire department.

FIRE FIGHTING PROCEDURES:

Firefighters should wear full protective clothing and self-contained breathing apparatus (SCBA). Using a 10% solution of sodium carbonate, thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Using appropriate protective clothing and safety equipment, contain spilled material. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal. Do not use floor sweeping compounds to clean up spills. Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form. Do not transport wet or damp material. Keep product out of sewers, watersheds and water systems. Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment. Dispose of according to local, state and federal regulations.

7. HANDLING AND STORAGE

HANDLING:

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STRONG OXIDIZING AGENT: Do not mix with other chemicals. Mix only with water. Never add water to product. Always add product to large quantities of water. Use clean dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter or other chemicals will start a chemical reaction and generate heat, hazardous gas, possible fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well ventilated area. Flood area with large volumes of water.

· STORAGE:

Keep this product in original closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame. Do not contaminate water, food or feed by storage or disposal or cleaning of equipment. Do not store above 125 F (52 C).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

EXPOSURE LIMITS

OSHA PEL ACGIH TLV ŞUPPLIER OEI ppm mg/m³ ppm mg/m³ ppm mg/m³

Sodium dichloro-s-triazinetrione

TWA N/E[1]

N/E

OSHA TABLE COMMENTS:

1. N/E = Not Established

ENGINEERING CONTROLS:

General room ventilation plus local exhaust should be used to minimize exposure to dust/vapors.

PERSONAL PROTECTIVE EQUIPMENT:

EYES AND FACE:

Wear goggles or safety glasses with side shields when handling this product.

SKIN:

Wear rubber gloves when handling this product. Avoid contact with skin.

RESPIRATORY:

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

WORK HYGIENIC PRACTICES:

Remove and wash contaminated clothing before reuse.

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Super Ox-II

OTHER USE PRECAUTIONS:

Facilities storing or utilizing this material should be equipped with an eyewash and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

ODOR: Chlorine

APPEARANCE: Granules

COLOR: White

pH: 6 to 7(1% solution @ 25 C)
VAPOR PRESSURE: Not Available
VAPOR DENSITY: Not Determined
BOILING POINT: Not Applicable
FREEZING POINT: Ngt Applicable

MELTING POINT: 240°C (464°F) to 250°C (480°F)

SOLUBILITY IN WATER: 24g / 100g water

DENSITY: 56 - 60 lb / cu. ft.

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID:

High temperature. Poor ventilation. Contamination. Moisture/high humidity.

STABILITY:

This product is stable under normal conditions.

POLYMERIZATION:

Hazardous polymerization will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS:

Chlorine containing gases can be produced.

INCOMPATIBLE MATERIALS:

This material is a strong oxidizing agent. Avoid contact with water on concentrated material in the container. Also avoid contact with easily oxidizable organic material; ammonia, urea, or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; calcium hypochlorite; alkalis; other swimming pool/spa chemicals in their concentrated forms.

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Super Ox-II

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: 6000 mg/kg of body weight in rabbits.

ORAL LD₅₀: 700 mg/kg of body weight in rats

On contact with moisture, this material readily hydrolyzes to hypochlorous acid and cyanuric acid. The tissue damage resulting from contact is considered to result, in part, from its hypochlorous acid decomposition products. May cause gastrointestinal and respiratory tract irritation. May be severely irritating or corrosive to eyes and skin.

EYE EFFECTS:

This product is corrosive to eyes.

SKIN EFFECTS:

This product is corrosive to skin.

CHRONIC / SUBCHRONIC:

Chronic exposure to large amounts of this compound has not been characterized and the irritating properties of the compound make such an exposure highly unlikely.

CARCINOGENICITY:

This product is not listed as a carcinogen by IARC.

This product is not listed as a carcinogen by NTP.

This product is not listed as a carcinogen by OSHA.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

This pesticide is toxic to fish and aquatic organisms. Do not disharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

Pesticide wastes are toxic. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment. Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Contact with incompatible materials could cause a reaction or fire.

MSDS

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Date-Issued: 10/03/1997 MSDS Ref. No: BBIO61754 Date-Revised: 11/09/2000

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Super Ox-II

EMPTY CONTAINER:

Do not reuse container. Rinse thoroughly before discarding in trash.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Dichloroisocyanuric Acid, Dry

PRIMARY HAZARD CLASS/DIVISION: 5.1

UN/NA NUMBER: 2465 PACKING GROUP: II

CANADA TRANSPORT OF DANGEROUS GOODS

PROPER SHIPPING NAME: Dichloroisocyanuric Acid, Dry

PRIMARY HAZARD CLASS/DIVISION: 5.1

UN/NA NUMBER: 2465 PACKING GROUP: II

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT) 311/312 HAZARD CATEGORIES:

FIRE: YES PRESSURE GENERATING: NO REACTIVITY: YES ACUTE: YES CHRONIC: NO

313 REPORTABLE INGREDIENTS: This product or its components are not listed.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
CERCLA REGULATORY: This product or its components are not listed.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: This product or its components are not subject to export notification. TSCA STATUS: This product or its components are listed on the TSCA inventory.

OSHA HAZARD COMM, RULE:

Product is hazardous by definition of the Hazardous Communication Standard.

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT): This product is a registered pesticide.

16. OTHER INFORMATION

MSDS

Page: 8 of 8

Date-Issued: 10/03/1997 MSDS Ref. No: BBIO61754

Date-Revised: 11/09/2000 Revision No: 4

Super Ox-II

REVISION SUMMARY

Revision #: 4

This MSDS replaces the November 01, 2000 MSDS. Any changes in information are as follows:

NFPA CODES

HEALTH: 3

FIRE: 1

REACTIVITY: 1

å.

NFPA STORAGE CLASSIFICATION:

NFPA Oxidizer Class 3

HMS CODES

HEALTH: 3

FIRE: 1

REACTIVITY: 1

PROTECTION: B

MANUFACTURER DISCLAIMER:

IMPORTANT: This information is given without a warranty or guarantee. No suggestions for use are intended or shall be construed as a recommendation to infringe any existing patents or violate any Federal, State or local laws. Safe handling and use is the responsibility of the customer. Read the label before using this product. This information is true and accurate to the best of our knowledge.

BUCKMAN LABORATORIES, INC. MATERIAL SAFETY DATA SHEET



TBCH

Revision date:

8/21/2003

Buckman Laboratories, Inc. 1256 North McLean Boulevard Memphis, TN 38108

Phone 1-800-BUCKMAN

24 Hour Emergency Phone: (901) 767-2722

SECTION 1

OSHA HAZARD CLASSIFICATIONS

Oxidizer. Causes burns. May cause skin sensitization.

SECTION 2

HAZARDOUS COMPONENTS

Chemical Name

CAS Number

% by Weight

TLV

Bromo, chloro-5,5-dimethylhydantoin

32718-18-6

98

Not available.

The remainder of the components comprise proprietary information.

SECTION 3

FIRST AID INFORMATION

Flush immediately with copious amounts of tap water or normal saline (minimum of 15 minutes). Take exposed individual to a health care professional, preferably an ophthalmologist, for further evaluation,

Skin Exposure:

Wash exposed area with plenty of water, Repeat washing, Remove contaminated clothing and wash thoroughly before reuse. If irritation persists consult a health care professional.

Inhalation;

If exposure by inhalation is suspected, immediately move exposed individual to fresh air. If individual experiences nausea, headache, dizziness, has difficulty in breathing or is cyanotic, seek a health care professional immediately.

Ingestion:

DO NOT INDUCE VOMITING. Rinse with copious amounts of water or milk, first. Irrigate the esophagus and dilute stomach contents by slowly giving one (1) to two (2) glasses of water or milk. Avoid giving alcohol or alcohol related products. In cases where the individual is semi-comatose, comatose or convulsing, DO NOT GIVE FLUIDS BY MOUTH. In case of intentional ingestion of the product seek medical assistance immediately; take individual to nearest medical facility.

SECTION 4

PRIMARY ROUTES OF EXPOSURE

1. Effects from Acute Exposure:

Eye Exposure: Very hazardous in case of eye contact (irritant, corrosive). Eye contact can result in corneal damage or blindness. Inflammation of the eye is characterized by redness, watering, and itching.

Skin Exposure: Hazardous in case of skin contact (corrosive, irritant). The amount of tissue damage depends on length of contact. Skin contact can produce inflammation and blistering. Skin contact may produce burns. Prolonged exposure may result in skin burns and ulcerations. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation;

May be harmful if inhaled. Do not breathe spray mists of the undiluted product. Effects will depend upon solution strength and length of time of exposure.

USA TBCH Ingestion:

Ingestion is not expected to be a primary route of exposure.

2. Effects from Chronic Exposure:

The effects from chronic exposure to this product have not been evaluated.

SECTION 5

Toxicological Information

Acute Effects:

Acute Oral

al (LD50) = 929 mg/kg Rat

Acute

Inhalation (LC50) = 1.1 mg/l (4 hours) Rat

Irritant / Sensitization Effects:

Very hazardous in case of eye contact (irritant, corrosive). Eye contact can result in corneal damage or blindness. Inflammation of the eye is characterized by redness, watering, and itching.

Hazardous in case of skin contact (corrosive, irritant). The amount of tissue damage depends on length of contact. Skin contact can produce inflammation and blistering. Skin contact may produce burns. Prolonged exposure may result in skin burns and ulcerations. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Page 2

May be harmful if inhaled. Do not breathe spray mists of the undiluted product. Effects will depend upon solution strength and length of time of exposure.

Carcinogenic Potential:

Not tested by Buckman Laboratories. Not shown as a carcinogen by OSHA, IARC, or NTP.

Target Organs Effects:

May cause damage to the following organs: upper respiratory tract, skin, eyes.

Other Health Effects:

Inhalation may cause irritation of the upper respiratory tract. Shortness of breath, headache and nausea may occur. Exposure to wet skin may cause severe irritation. Mutagenic by the Ames Test.

SECTION 6

Environmental Toxicological Information

LC50 = 1.2 mg/l 96 hours Eastern oyster (acute flow through)

LC50 = 1.9 mg/l 96 hours Mysid shrimp (acute flow through)

LC50 = 0.4 mg/l 96 hours Rainbow trout (static)

LC50 = 0.46 mg/l 96 hours Bluegill sunfish (static)

LC50 = 1.6 mg/l 96 hours Sheepshead minnow (acute flow through)

LC50 = 0.75 mg/l 48 hours Daphnia magna (static)

SECTION 7

Odor

Physical and Chemical Properties

Appearance White to off-white tablet, solid

Halogenous (Slight.)

Density 1.9 g/cm³

Flash Point Not available.

Melting/Freezing Point Not available.

Boiling Point Not available.

pH (Neat) Not available.

pH (100 ppm in water) Not available.

Vupor Pressure...... Not applicable for solids.

o/w Partition Coefficient Not available.

Oxidizing/Reducing Properties. Not available.

USA

TBCH

Viscosity Additional pH Information	Not available. Not available.
SECTION 8	Fire and Explosion Information
Flammable Limits	Not available.
Extinguishing Media	Water fog, carbon dioxide, foam, dry chemical.
Special Firefighting Procedures	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
SECTION 9	Reactivity Information
Stability	Stable under normal conditions of use and storage. Keep away from all sources of ignition. The minimum recommended storage temperature for this material is 20°C. The maximum recommended storage temerature for this material is 30°C. Store in dry, well vetilated area away from incompatible materials (see incompatibilities below). Avoid heating above 160°C.
Incompatibility	Bases, oxidizing agents, combustible organic materials
Hazardous Decomposition Products	Hydrogen bromide, bromine, hydrochloric acid

SECTION 10

Handling Precautions

Ventilation Requirements: Use local exhaust as necessary, especially under dusty conditions.

Personal Protective Equipment:

-Hand protection

PVC gloves

-Eye protection

Chemical safety goggles

-Skin protection

Body covering clothes and boots

Hygiene Measures:

Safety shower and eye bath should be provided. Do not eat, drink or smoke until after-work showering and changing clothes.

If dusting can occur, a NIOSH approved dust respirator is recommended.

SECTION 11

Satisfactory Materials of Construction

Not available.

SECTION 12

Spill, Leak, and Disposal Procedures

SPILL AND LEAK RESPONSE GUIDELINES:

Important: Before responding to a spill or leak of this product, review each section of this MSDS. Follow the recommendations given in the Handling Precautions sections. Check the Fire and Explosion Data section to determine if the use of non-sparking tools is merited. Insure that spilled or leaked product does not come into contact with materials listed as incompatible. If irritating fumes are present, consider evacuation of affected areas.

Emergency Response Assistance: Emergency technical assistance is available at any time from Buckman Laboratories, Inc., by calling (901) 767-2722. Collect calls are accepted.

Initially minimize area affected by the spill or leak. Block any potential routes to water systems (e.g., sewers, streams, takes, etc.). Based on the product's toxicological and chemical properties, and on the size and location of the spill or leak, assess the impact on contaminated environments (e.g., water systems, ground, air equipment, etc.). There are no methods available to completely eliminate any toxicity this product may have on aquatic environments. Minimize adverse effects on these environments, Buckman Laboratories, Inc. can be contacted for technical assistance. Determine if federal, state, and/or local release notification is required (see Regulatory Information section of this MSDS). Recover as much of the pure product as possible into appropriate containers. Later, determine if this recovered product can be used for its intended purpose. Address clean-up of contaminated environments. Spill or leak residuals may have to be collected and disposed of. Clay, soil, or commercially available absorbents may be used to recover any material that can not readily be recovered as pure product. Flushing residual material to an industrial sewer, if present at the site of a spill or leak incident, may be acceptable if authorized approval is obtained. If product and/or spill/leak residuals are flushed to an industrial sewer, insure that they do not come into contact with incompatible materials.

DISPOSAL GUIDELINES

Note: Follow federal, state, and local regulations governing the disposal of waste materials.

Neat Product: Contact your Buckman representative.

Contaminated Materials: Determine if waste containing this product can be handled by available industrial effluent system or other on-site waste management unit. If off-site management is required, contact a company experienced in industrial waste management.

Container Disposal: If assistance is needed, contact your Buckman sales representative.

SECTION 13

Transportation and Shipping Information

DOT Shipping Information:

OXIDIZING SOLID, CORROSIVE, N.O.S., (Bromo, chloro-5, 5-dimethylhydantoin), Class 5.1, (8), UN3085, P.G. II, (ERG Guide 140)

IMO/IMDG Shipping Information:

OXIDIZING SOLID, CORROSIVE, N.O.S., (Bromo, chloro-5, 5-dimethylhydantoin), Class 5.1, UN3085, P.G. II, (8), MARINE POLLUTANT, (EmS No. 5.1-05, ERG Guide 140, HazMat Code 4918546)

IATA Shipping Information:

OXIDIZING SOLID, CORROSIVE, N.O.S., (Bromo, chloro-5, 5-dimethylhydantoin), Class 5.1, (8), UN3085, P.G. II, (ERG Guide 140, ERG Code 5C)

Unless otherwise stated, the shipping information provided above applies only to non-bulk containers of this product. Proper shipping name and general shipping information may vary depending on packaging and mode of shipment. All products shipped from Buckman locations have been properly packaged and labeled according to appropriate hazardous materials shipping regulations. If any alteration of packaging, product, or mode of transportation is further intended, different shipping information, including but not limited to proper shipping name, RQ designation, and labeling may apply. For further information pertaining to the shipping requirements for this product, contact Buckman's Transportation Department or DOT Coordinator.

SECTION 14

Regulatory Information

The following Regulations are known to apply to the use and disposal of this product. Additional Federal, State and Local regulations may also be applicable.

SARA (Superfund Amendments and Reauthorization Act)

SARA 302 Extremely Hazardous Substances List ...

No components of this product are listed.

SARA 312 Hazard Category ...

Reactive, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

SARA 313 Toxic Chemicals List ...

No components of this product are present above the de minimus levels.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)

Bromo, chloro-5,5-dimethylhydantoin R

RQ = 100 lbs. (45.36 kg)

RCRA (Resource Conversation and Recovery Act) Listed Hazardous Waste

This materia may be classified as a RCRA hazardous waste with the characteristic of ignitability. Hazardous waste number: D001.

CWA (Clean Water Act) Listed Substances

No components of this product are listed.

FDA (Food and Drug Administration)

This product is not approved for food contact uses.

TSCA (Toxic Substances Control Act) Applicability

All components may not be listed on the TSCA Inventory. Registered pesticides are exempt from the requirements of TSCA.

FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act)

This product is a registered pesticide. EPA Reg. No. 1448-420

USA TECH

HMIS/NPCA Rating	Health	3	Flammability	0	Reactivity	1
NFPA Ratings	Health	3	Flammability	0	Reactivity	1

State Regulations

Various State Right To Know Acts ...

Non-proprietary hazardous chemicals are listed in Section 2 of this MSDS. Should you require further information on specific proprietary or inert ingredients please contact Buckman Laboratories' Regulatory Affairs Department.

The information on this Material Safety Data Sheet reflects the latest information and data that we have on bazards, properties, and bandling of this product under the recommended conditions of use. Any use of this product or method of application which is not described in the Data Sheet is the responsability of the user. This Material Data Safety Sheet was prepared to comply with the OSHA Hazard Communication regulations.

Buckman Laboratorics, Inc. warrants that this product conforms to its chemical description and is reasonably fit for the purpose referred to in the directions for use when used in accordance with the directions under normal conditions. Buyer assumes the risk of any use contrary to such directions.

Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty.

The exclusive remedy against seller shall be in a claim for damages not to exceed the purchase price of the product, without regard to whether such a claim is based upon breach of warranty or tort.

Any controversy or claim arising out or relating to this contract, or breach thereof, shall be settle by arbritation in accordance with the commercial arbritation rules of the American Arbritation Association, and judgement upon the renderred by the Arbritator(s) may be entered in any court having jurisdiction thereof.

B939L





MATERIAL SAFETY DATA SHEET

B939L VER 04-1 DATE: 10/8/04 SW

24 HOUR TELEPHONE NUMBER (CHEMTREC) 800-424-9300

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: B939L

PRODUCT TYPE: CORROSION INHIBITOR FOR CLOSED SYSTEMS

CHEMICAL FAMILY: ALKALINE

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER.	OSHA STEL	OSHA PEL	ACGIH TLV
SODIUM NITRITE	7632-00-0	NONE	NONE	NONE
SODIUM TOLYTRIAZOLE	64665-57-2	NONE	NONE	NONE
SODIUM HYDROXIDE	1310-73-2	2 ppm	2 ppm	2 ppm
BORAX	1303-96-4	5 ppm	10 ppm	5 ppm

SECTION 3. HAZARDS IDENTIFICATION

THIS CLEAR BLUE LIQUID IS AN OXIDIZER AND CORROSIVE AND IS HARMFUL IF SWALLOWED.

<u>INHALATION:</u> MIST HARMFUL IF INHALED. OVEREXPOSURE BY INHALATION OR INGESTION MAY CAUSE REDUCED OXYGEN CARRYING CAPACITY OF BLOOD AND POSSIBLE CYANOSIS,METHEMOGLOBINEMIA AND CONVULSIONS DEATH.

EYE CONTACT: MIST MAY SEVERELY IRRITATE OR BURN THE EYES.

SKIN CONTACT: MAY IRRITATE AND BURN THE SKIN OVER A PROLONGED TIME.

INGESTION: CAN CAUSE NAUSEA, HEADACHE, WEAKNESS, AND SHORTNESS OF BREATH. ONE

GRAM MAY BE TOXIC - SEE INHALATION.

CHRONIC: NO SIGNIFICANT EFFECTS HAVE BEEN FOUND.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NONE.



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SECTION 4. FIRST AID MEASURES

INHALATION: MOVE SUBJECT TO FRESH AIR.

EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES.

GET IMMEDIATE MEDICAL ATTENTION.

SKIN: WASH AFFECTED SKIN AREAS THOROUGHLY WITH SOAP AND

WATER. CONSULT A PHYSICIAN IF BURNS OR IRRITATION

DEVELOP.

INGESTION IF SWALLOWED, GIVE 2 GLASSES OF WATER TO DRINK.

GET MEDICAL ATTENTION IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO

AN UNCONSCIOUS PERSON.

TARGET ORGAN: POINT OF CONTACT

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NOT DETERMINED.

SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT: DOES NOT BURN AUTO-IGNITION TEMPERATURE: NOT APPLICABLE

FLAMMABLE LIMITS:

LOWER EXPLOSIVE LIMIT (LEL): NOT APPLICABLE UPPER EXPLOSIVE LIMIT (UEL): NOT APPLICABLE

GENERAL HAZARD: THIS MATERIAL IS A LIQUID WHICH DOES NOT BURN

BUT WHICH CONTAINS AN OXIDIZER.

EXTINGUISHING AGENTS: DOES NOT BURN

PERSONAL PROTECTIVE EQUIPMENT:

USE NIOSH APPROVED SELF CONTAINED BREATHING APPARATUS AND FULL

PROTECTIVE GEAR. USE WATER SPRAY TO KEEP CONTAINERS COOL.

HAZARDOUS COMBUSTION PRODUCTS:

HIGH TEMPERATURES YIELD OXIDES OF CARBON AND NITROGEN.



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SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION:

WEAR GOGGLES, RUBBER GLOVES AND A RUBBER APRON.

PROCEDURE:

LAND:

COLLECT AND TRANSFER TO A WASTE DRUM.

PREVENT ANY MATERIAL FROM GOING TO A STORM SEWER, STREAM, OR RIVER.

WATER:

NOTIFY AUTHORITIES.

SECTION 7. HANDLING AND STORAGE

STORAGE:

STORE IN A COOL, DRY PLACE. KEEP CONTAINER CLOSED. USE ADEQUATE VENTILATION. PROTECT FROM FREEZING.

<u>HANDLING:</u> WEAR PROPER PROTECTIVE EQUIPMENT. WASH HANDS

AFTER USE

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: USE LOCAL EXHAUST VENTILATION.

RESPIRATORY PROTECTION: NONE.

EYE PROTECTION: USE GOGGLES.

HAND PROTECTION: USE ELBOW LENGTH RUBBER GLOVES. USE A RUBBER APRON WITH

LARGE AMOUNTS

OTHER PROTECTION: EYE WASH STATION

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: CLEAR BLUE LIQUID

pH : 12.0-13.0

BOILING POINT: NOT DETERMINED

ODORLESS

SPECIFIC GRAVITY: 1.35

BULK DENSITY: 11.26 LBS./GAL.

SECTION 10. STABILITY AND REACTIVITY

STABILITY: STABLE

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

CORPORATE OFFICE: 113 Bloomingdale Road, Hicksville, NY 11801 (516) 932-3030 FAX: (516) 932-0014
Representation in the Continental United States, Hawaii and Puerto Rico •TOLL FREE: (800) 247-3973
Members of: CTI •ASHRAE •NADCA •AWT •ACCA •BOMA •AFE •NAPE

www.cascadewater.com

B939L





HAZARDOUS POLYMERIZATION: NONE

INCOMPATIBILITY: DO NOT MIX WITH ACIDS AND REDUCING AGENTS.

SECTION 11. TOXICOLOGICAL INFORMATION

CARCINOGENIC INFORMATION:

CAS#: NONE

IARC: NOT LISTED NTP: NOT LISTED OSHA: NOT LISTED ACGIH: NOT LISTED

SECTION 12. ECOLOGICAL INFORMATION

DANGEROUS TO ANIMALS - IMMEDIATELY CLEAN UP SPILLS.

SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSE IN ACCORDANCE TO LOCAL, STATE, AND FEDERAL GUIDELINES.

SECTION 14. TRANSPORT INFORMATION

DOT SHIPPING INSTRUCTIONS: OXIDIZING LIQUID, CORROSIVE LIQUID, N. O. S., (Contains Sodium Nitrite, Sodium Hydroxide), 5.1, UN3098,PG II

HAZARD CLASS: OXIDIZER, 5.1

SECTION 15. REGULATORY INFORMATION

SARA TITLE 3 (311/312): IMMEDIATE (ACUTE) HEALTH HAZARD

SARA TITLE 3 (313): CONTAINS SODIUM NITRITE, A REPORTABLE COMPONENT.

CERCLA: CONTAINS SODIUM NITRITE, A REPORTABLE COMPONENT WHICH IS REPORTABLE AT THE 300

POUNDS OF PRODUCT RELEASED LEVEL.

TSCA: ALL COMPONENTS ARE LISTED ON THE TSCA INVENTORY

SECTION 16. OTHER INFORMATION

NFPA RATINGS:

HEALTH HAZARD...2 FLAMMABILITY.....0 REACTIVITY......0

OTHER.....OXIDIZER, CORROSIVE (BASIC)

NATIONAL FIRE PROTECTION ASSOCIATION HAZARD RATINGS:
0-INSIGNIFICANT 1-SLIGHT 2-MODERATE 3-HIGH
4-EXTREME U-UNKNOWN *-NO INFORMATION

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MATERIAL SAFETY DATA SHEET

C876L VER 06-1 DATE: 6/26/06

24 HOUR TELEPHONE NUMBER (CHEMTREC) 800-424-9300

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: C876L

PRODUCT TYPE: SCALE AND CORROSION INHIBITOR FOR COOLING TOWERS

CHEMICAL FAMILY: POLYMER

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT CAS NUMBER. OSHA STEL OSHA PEL ACGIH TLV

HEDP (1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONIC ACID)

2809-21-4 NONE NONE NONE

SODIUM POLYACRYLATE 9003-04-7 NONE NONE NONE

SECTION 3. HAZARDS IDENTIFICATION

THIS LIQUID PRODUCT IS CORROSIVE.

INHALATION: INHALATION OF MIST MAY PRODUCE IRRITATION AND BURNS OF THE

RESPIRATORY TRACT AND MAY RESULT IN PULMANARY EDEMA.

EYE CONTACT: SEVERE IRRITATION AND BURNS.

SKIN CONTACT: STRONG IRRITATION AND BURNS.

INGESTION: MAY RESULT IN SEVERE GASTRIC DISTURBANCE, INCLUDING NAUSEA AND

VOMITING.

CHRONIC: NO SIGNIFICANT EFFECTS HAVE BEEN FOUND.

TARGET ORGAN: POINT OF CONTACT.

SECTION 4. FIRST AID MEASURES

<u>INHALATION:</u> MOVE SUBJECT TO FRESH AIR.GET IMMEDIATE MEDICAL ATTENTION.

EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES.

GET IMMEDIATE MEDICAL ATTENTION.

<u>SKIN</u>: WASH AFFECTED SKIN AREAS THOROUGHLY WITH SOAP AND

WATER. CONSULT A PHYSICIAN IF BURNS OR IRRITATION

DEVELOP.

INGESTION IF SWALLOWED, GIVE 2 GLASSES OF WATER TO DRINK.

GET MEDICAL ATTENTION IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO

AN UNCONSCIOUS PERSON. DO NOT INDUCE VOMITING.

CORPORATE OFFICE: 113 Bloomingdale Road, Hicksville, NY 11801 (516) 932-3030 FAX: (516) 932-0014

Representation in the Continental United States, Hawaii and Puerto Rico • TOLL FREE: (800) 247-3973

Members of: CTI •ASHRAE •NADCA •AWT •ACCA •BOMA •AFE •NAPE



C876L





TARGET ORGAN: POINT OF CONTACT.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NOT DETERMINED.

SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT: NOT FLAMMABLE AUTO-IGNITION TEMPERATURE: NOT DETERMINED

LOWER EXPLOSIVE LIMIT (LEL): N/A
UPPER EXPLOSIVE LIMIT (UEL): N/A

EXTINGUISHING AGENTS:

CARBON DIOXIDE OR USE DRY CHEMICAL FOR SMALL FIRES.

PERSONAL PROTECTIVE EQUIPMENT:

USE A NIOSH APPROVED SELF CONTAINED BREATHING APPARATUS AND FULL

PROTECTIVE GEAR. USE A WATER SPRAY TO KEEP CONTAINERS COOL.

HAZARDOUS COMBUSTION PRODUCTS:

HIGH TEMPERATURES YIELD OXIDES OF NITROGEN

AND CARBON.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION:

WEAR GOGGLES, RUBBER GLOVES AND A RUBBER APRON.

<u>PROCEDURE:</u>

LAND:

NEUTRALIZE WITH SODA ASH, THEN ADD ABSORBANT, COLLECT AND TRANSFER

TO A WASTE DRUM.

PREVENT ANY MATERIAL FROM GOING TO A STORM SEWER, STREAM, OR RIVER.

WATER:

NOTIFY AUTHORITIES.

SECTION 7. HANDLING AND STORAGE

STORAGE:

STORE IN A COOL, DRY PLACE. KEEP CONTAINER CLOSED.

USE ADEQUATE VENTILATION.

<u>HANDLING:</u> WEAR PROPER PROTECTIVE EQUIPMENT. WASH HANDS

AFTER USE

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: USE LOCAL EXHAUST VENTILATION.

RESPIRATORY PROTECTION: NONE.

EYE PROTECTION: USE GOGGLES.

3





arc

<u>HAND PROTECTION:</u> USE ELBOW LENGTH RUBBER GLOVES AND APRON.

<u>OTHER PROTECTION</u>: EYE WASH STATION

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: CLEAR LIQUID pH: LESS THAN 1.0 BOILING POINT: NOT DETERMINED

ODOR: AZOLE SPECIFIC GRAVITY: 1.23

BULK DENSITY: 9.70 LBS./GAL.

FREEZING POINT: 28° F

SOLUBILITY: COMPLETE

SECTION 10. STABILITY AND REACTIVITY

STABILITY: STABLE

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

HAZARDOUS POLYMERIZATION: NONE

INCOMPATIBILITY: DO NOT MIX WITH ALKALIES AND STRONG

OXIDIZERS.

SECTION 11. TOXICOLOGICAL INFORMATION

CARCINOGENIC INFORMATION:

CAS#: NONE

IARC: NOT LISTED NTP: NOT LISTED OSHA: NOT LISTED ACGIH: NOT LISTED

SECTION 12. ECOLOGICAL INFORMATION

NONE

SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSE IN ACCORDANCE TO LOCAL, STATE, AND FEDERAL GUIDELINES.

SECTION 14. TRANSPORT INFORMATION

DOT SHIPPING INSTRUCTIONS: CORROSIVE LIQUID, ACIDIC, ORGANIC N.O.S., (CONTAINS PHOSPHONIC ACID), 8, UN3265, PGII

HAZARD CLASS: CORROSIVE, 8





SECTION 15. REGULATORY INFORMATION

SARA TITLE 3 (311/312): YES **HEALTH IMMEDIATE** (Acute)

> **DELAYED** (Chronic) HEALTH NO **PHYSICAL FIRE** NO SUDDEN RELEASE OF PRESSURE **PHYSICAL** NO **PHYSICAL** REACTIVE NO **NUISANCE MIST** YES

SARA TITLE 3 (313): NOT LISTED

CERCLA: **NONE**

WASTE DISPOSAL (RCRA): MEET THE CLASSIFICATIONS OF CORROSIVITY.

TSCA: ALL COMPONENTS ARE LISTED ON THE TSCA INVENTORY.

SECTION 16. OTHER INFORMATION

NFPA RATINGS:

HEALTH HAZARD...2 FLAMMABILITY.....0 REACTIVITY.....0

OTHER.....CORROSIVE, ACID

NATIONAL FIRE PROTECTION ASSOCIATION HAZARD RATINGS: **0-INSIGNIFICANT** 1-SLIGHT 2-MODERATE 3-HIGH U-UNKNOWN *-NO INFORMATION 4-EXTREME



Plant: Sears- N	lorth H	lolly	vood		i	Date: 2	-20-06			Code:	
Address: 12121	1 Victo	ry Bl	vd.		(City, Sta	te: Nor	th Hollyw	ood	Attentior):
······································				·····	Test	Resu	lts				
Cooling Tow											
System was	not o	nlin	e at ti	ime of	serv	rice. I	filled	the inhib	itor	tank.	
Chilled Loop)-										·
Inhibitor leve	el is p	rop	er at 1	this tir	ne.						
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	Hard.	Alk.	Alk.	WAT	ER A	ANAL	/SIS			ooling	Conductivity
044015					01	l N-OI	111	N-NO			
SAMPLE	Н	P	M		Cycl.	NaCI	рН	NaNO ₂	"	nhib.	μmhos
Raw											400
Cooling Tower	Not	On	Line							8	1000
Chilled Loop	 						10.9	760			3300
- Ormiou 200p	+	ļ <u>.</u>					10.3	700	-+		3300
											a _m ,
L	<u>. I </u>		R	ECON	IMEN	JDFD	RFΔΓ	INGS		l	
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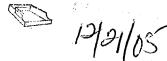
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SERVICE REPORT

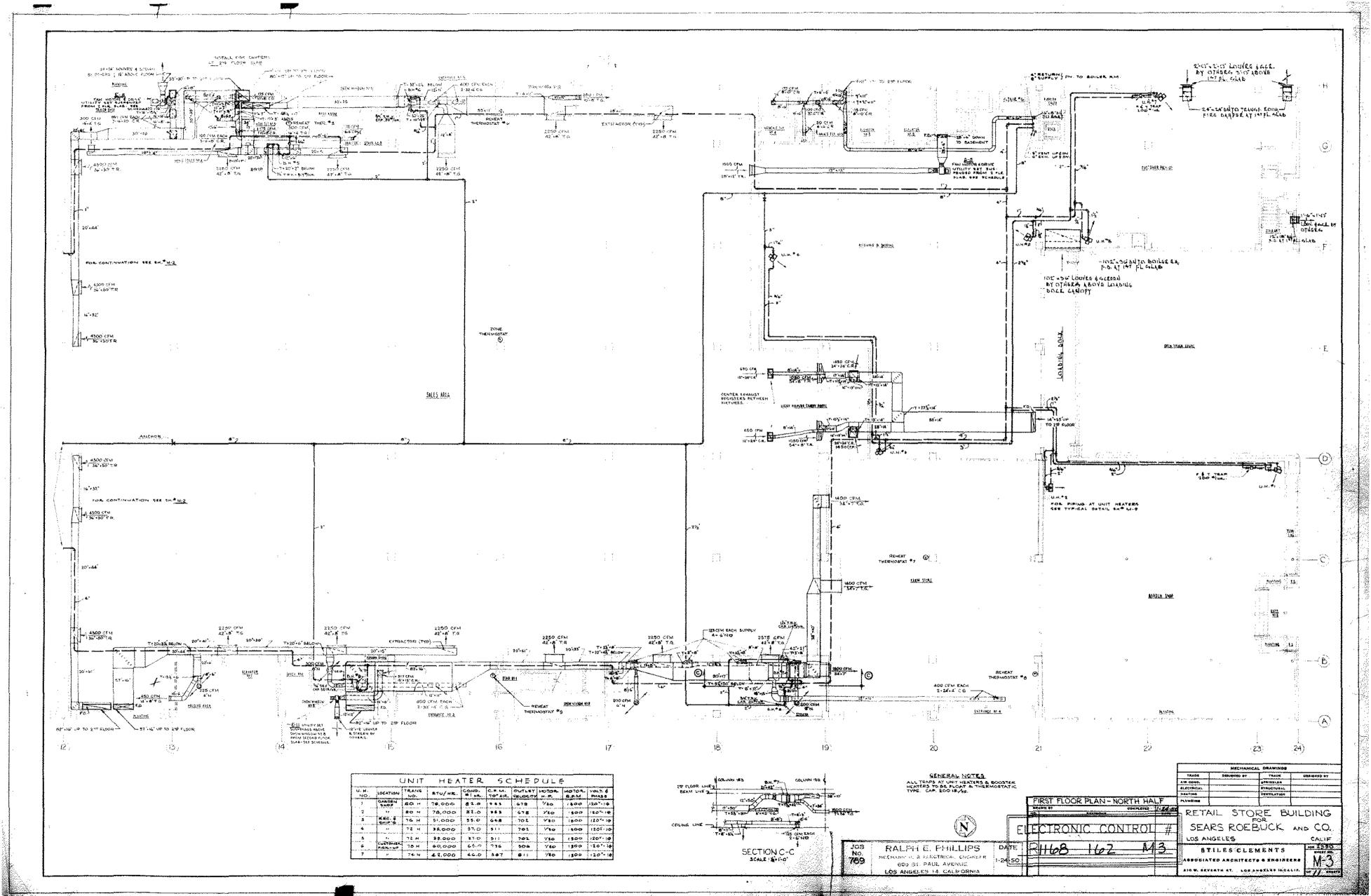
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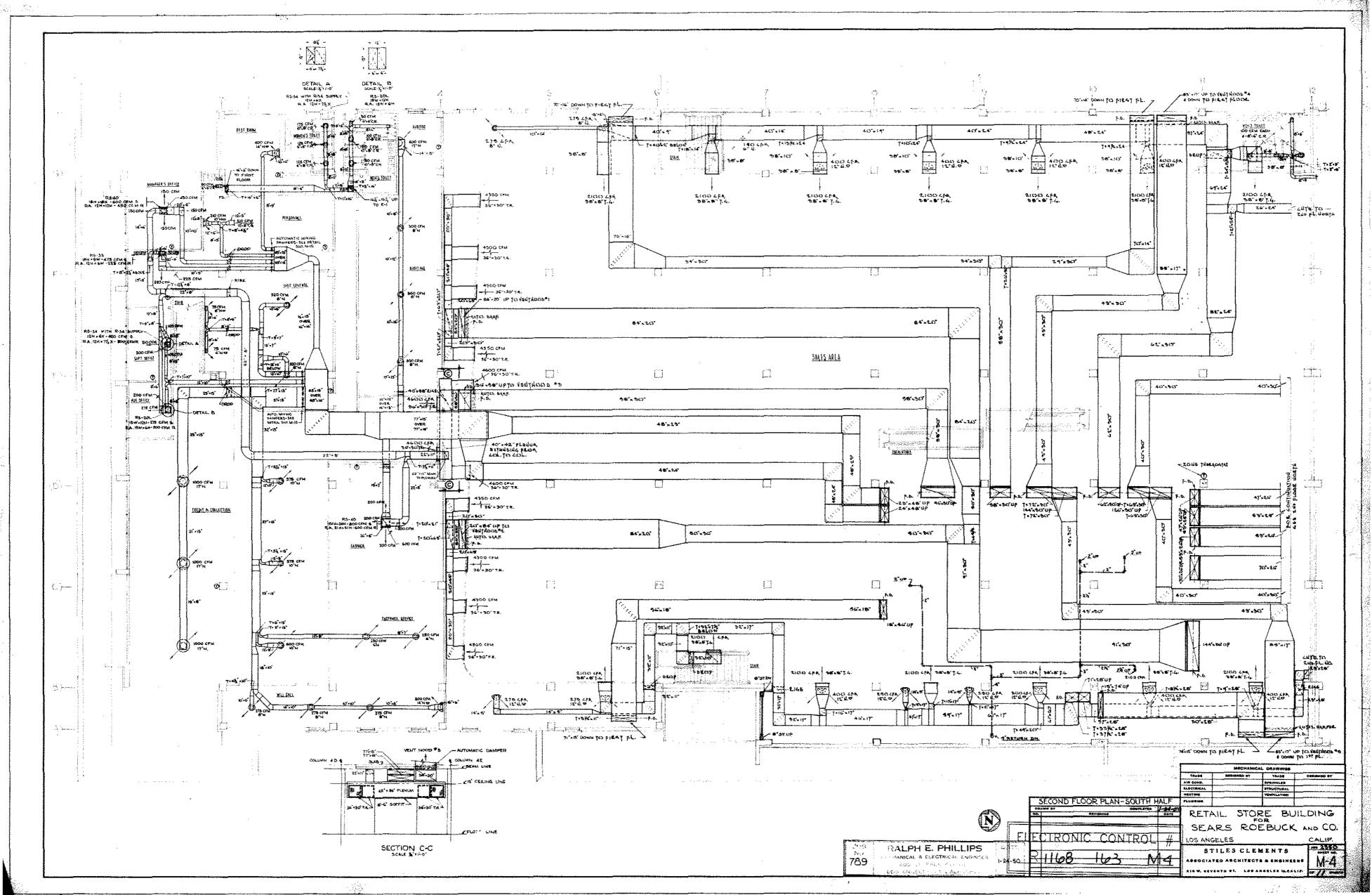
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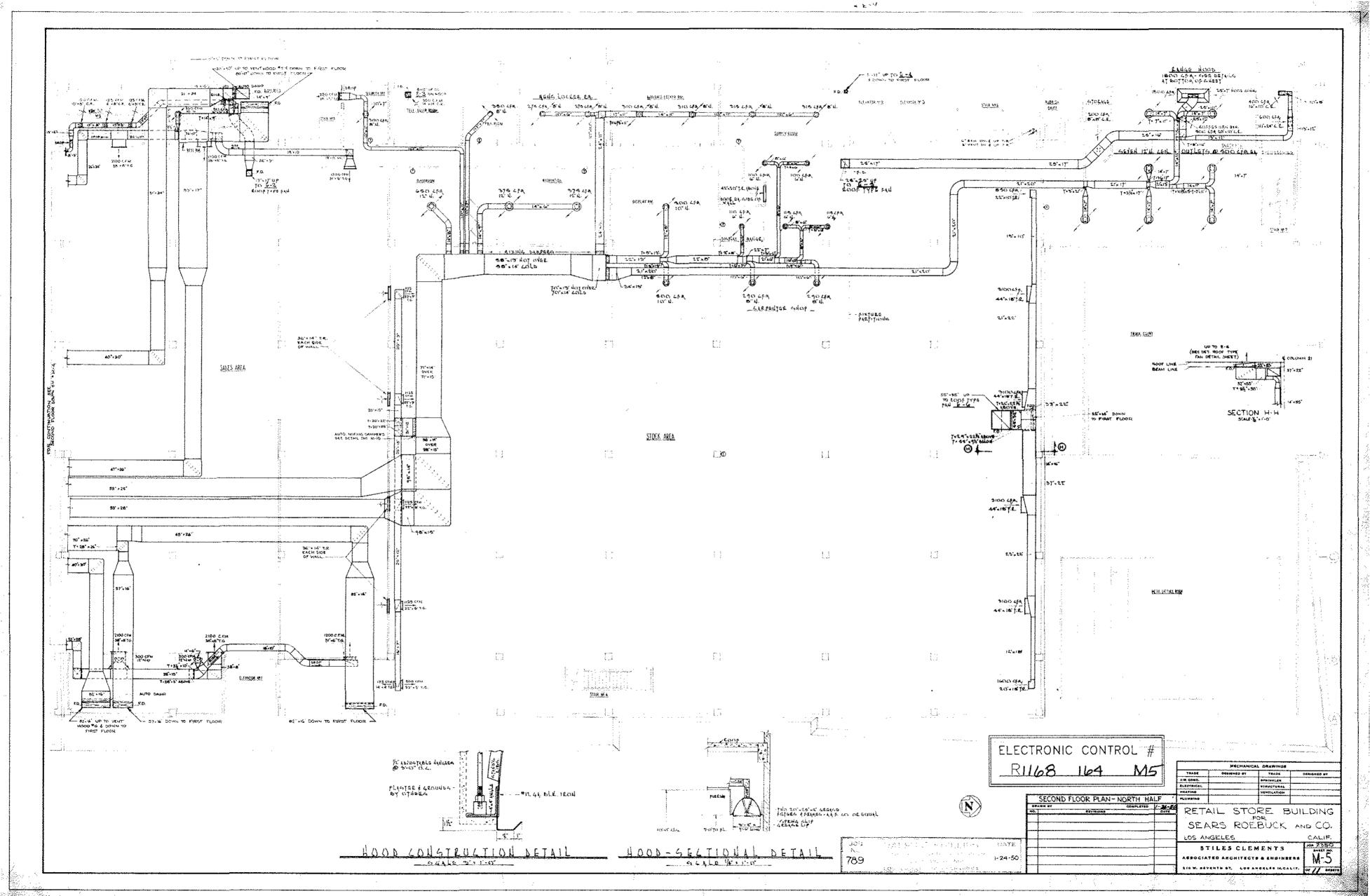
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CASCALE WATER SERVICES Srv Date 5.ce#: 15693-036 Cust Name: SEARS, ROEBUCK AND CO. Facilit 113 Bloomingdale Road Site Name: SEARS STORE #1168 OAR Time In Site Addr: 12121 VICTORY BLVD Hicksville, NY 11801 N. HOLLYWOOD CA 91606 Contact: (800) 247-3973 Time Out Phone: Monthly Report: Tech ID: ROS Call Date: 05/02/11 Work Order # Receipt Job: Y Route#:91606 964135 Page: 1 Conductivity O Alkalinity Calcium Total Cooling Call Slip pH Chloride SC Location Hardness Hardness TDS O Tower P Total Make Up> 6 2 T 1 1889153 ROOF 1500 4410 **Recommended Limits** Min-Max Added | On Site CoC **Equipment Status** SYSTEM CONDITIONS Special Instructions Chemicals 6 System Dirty Needs Cleaning 7 Treated Water Loss 1 Satisfactory 2 Treatment High / Adjusted Oun Out CT 1 WAS BLEED LINE VALVED OFF OR 711 3 Treatment Low / Adjusted 8 Steam / Condensate Loss 4 Bleed High / Adjusted 5 Bleed Low / Adjusted 9 SER 0 See Comment Below Oon Oon UNPLUGGED ON ARRIVAL? Y N Comments: (if additional space is required use form E-521) Oon Oof Test 15 @ Correct DID THE CONTROLLER HAVE POWER? levels check probe Flow Switch Chemical drum= Good YES NO DON OOH CWS Our Out Nitrite levelshigh due to Oon Oott Alkalinity Conductivity @ Total SC System Call Slip Chloride Location pH Hardness TOS O Total CWS 1889154 MER **Recommended Limits** 9.5-10.5 00-1600 000-3000 Min-Max Service Rep Customer Signature Signature

ce#: 15693-036 CASCALE WATER SERVICES Srv Date Cust Name: SEARS, ROEBUCK AND CO. Facilit Site Name: SEARS STORE #1168 113 Bloomingdale Road Site Addr: 12121 VICTORY BLVD Time In Hicksville, NY 11801 N. HOLLYWOOD CA 91606 (800) 247-3973 Time Out Phone: Tech ID: ROS Monthly Report: Call Date: 04/01/11 Receipt Job: Y Work Order # Route#:91606 957071 Page: 1 Conductivity (Alkalinity Total Calcium Cooling Call Slip DH SC Chloride Location Hardness TDS O Total Hardness Tower Make Up> CT 1 1874643 ROOF Recommended Limits Min-Max L1500 19.0 Added On Site CoC Equipment Status SYSTEM CONDITIONS Special Instructions Chemicals 1 Satisfactory 2 Treatment High / Adjusted 3 Treatment Low / Adjusted 6 System Dirty Needs Cleaning 7 Treated Water Loss 8 Steam / Condensate Loss CT 1 WAS BLEED LINE VALVED OFF OR Our Doff 4 Bleed High / Adjusted 9 SER UNPLUGGED ON ARRIVAL? Y N Oon Oon 5 Bleed Low / Adjusted 0 See Comment Below Comments: (it additional space is required ann form C-521) OOn OOM DID THE CONTROLLER HAVE POWER? est is @ correct Check probe, Flow Switch, solenoid. Refill Chemical drun Oon DOH CWS Oon Oott cus- Nitrite levels high, due to Oon Oon Alkalinity Conductivity @ Total SC System Call Slip Chloride Location pH Hardness TDS O Total CWS 1874644 MER Recommended Limits 9.5-105 000-3000 500-1000 Min-Max Service Rep Customer Signature Signature







May 23, 2002

Ms. Jennifer Jones
Project Manager
California Environmental Protection Agency
Department of Toxic Substances Control
Southern California Region
1011 North Grandview Avenue
Glendale, CA 91201

Subject: Focused Soils Investigation Technical Memorandum

Proposed East Valley Middle School No. 1 Hamlin Street and Laurel Canyon Boulevard

Los Angeles, California

Telephane

502 951 211111

Dear Ms. Jones:

Facsimile

Earth Tech Inc. (Earth Tech), on behalf of the Los Angels Unified School District (LAUSD), is submitting this technical memorandum describing the focused soils 56 ± 95 (-31 mg investigation (FSI) conducted at the above referenced site (Site) (Figure 1). The FSI was conducted in accordance with recommendations presented in the Preliminary Environmental Assessment (PEA) submitted to the Department of Toxic Substances Control (DTSC) on March 11, 2002 and revised on May 7, 2002.

The primary recommendation provided in the PEA was to conduct a FSI in the vicinity of one soil boring (SB-21), where elevated concentrations of polycyclic aromatic hydrocarbons (PAHs) were detected at 0.5 feet below ground surface (bgs). The purpose of the FSI was to delineate the lateral and vertical extent of soil impacted with PAHs, which would allow for better assessment of potential effects to human health risk and remedial decision-making.

This memorandum presents the results of the FSI conducted in the vicinity of soil boring SB-21, conclusions and recommendations. Upon approval of this memorandum, Earth Tech and LAUSD will prepare a Remedial Action Work Plan (RAW), which will present the proposed remedial action to mitigate the elevated PAHs detected in the vicinity soil boring SB-21.

SITE DESCRIPTION

The Site consists of approximately 10-acres and is currently occupied by two commercial buildings (Valley Plaza) and one auto service center (Sears Auto Service Center). The remainder of the site consists of paved parking lots and a public access road (Bellingham Avenue). Single-family residences occupy the area northwest of the Site. Commercial properties occupy the area north, northeast, east and south of the Site. Valley Plaza Community Center and Park is located west of the Site.



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PERTINENT PEA RESULTS AND CONCLUSIONS

Results of the PEA indicated the following:

- Of the 79 soil samples analyzed for semi-volatile organic compounds (SVOCs), one soil sample (SB-21-0.5), near a former underground hoist) had detectable concentrations of 12 SVOCs, all of which are PAHs. The PAHs detected are considered to be chemicals of potential concern (COPC).
- Of the 10 soil samples analyzed for pesticides, four samples showed detectable concentrations of one to three separate pesticides. All pesticides detected are considered to be COPCs.
- All of the 17 Title 22 metals were detected across the site with the exception of Thallium. However, based on a comparison of the site average concentrations of these metals and their respective maximum background concentrations, none of the detected metals were determined to be COPCs.
- Total petroleum hydrocarbons (TPH) were detected at low to trace concentrations in one boring (SB-6) at five and nine feet bgs. The concentrations of TPH detected are not considered to be a concern.
- PCBs were not detected at the site.
- A total of 30 chemicals were identified as COPCs in soil and soil gas at the site. These COPCs were evaluated in the human health screening evaluation. Using maximum COPC concentrations detected at the site, a total incremental cancer risk for hypothetical residential exposure to soil through direct contact (including incidental ingestion, dermal contact and inhalation of dust particles) was estimated to be 8E-04. The chemicals that contributed to more than 99.9 percent of the estimated incremental cancer risk were the PAHs detected in soil sample SB-21-0.5. If the PAHs data from SB-21-0.5 were removed, the total site cancer risk would be less than the cancer risk criterion of 1E-6.

Accordingly, the PEA recommended further action in the form of a FSI to delineate the lateral and vertical extent of PAH impacted soil that would pose an unacceptable risk in the vicinity of soil boring SB-21. The PEA made no other recommendations for additional assessment.

PEA Investigation at Soil Boring SB-21

Soil boring SB-21 is located adjacent to a former underground hydraulic hoist. A concrete patch exists were the hoist was located and where the hydraulic line extended underground to the remote lift actuation lever (attached Figure). PAHs were detected in one sample collected at 0.5 feet bgs (SB-21-0.5). When drilling at SB-21 during the PEA investigation, an obstruction was encountered at approximately 3 feet bgs. Boring SB-21 was moved approximately three feet away, advanced to the total depth of 12-feet bgs (SB-21A) and



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samples collected at 7, 10 and 12 feet bgs. The 7-foot sample (SB-21-7) was analyzed for SVOCs according to EPA method 8270 in addition to other parameters presented in the PEA report. The 10 and 12-foot samples were held pending the analytical results, according to the PEA work plan. The analytical result for sample SB-21-7 was non-detect at the laboratory detection limits.

FOCUSED SOILS INVESTIGATION

Based on the results of soil sample SB-21-0.5, and in the interest of time, conducting stepout borings and collecting soil samples in the vicinity of borings SB-21 was discussed with Earth Tech, LAUSD and the DTSC project manager on February 13 and 14, 2002. It was agreed by all parties that while the drilling equipment and geologists were on site, a FSI should be conducted around boring SB-21 (one round of step-out borings and collecting soil samples).

The FSI was conducted on February 15, 2002 in the vicinity of soil boring SB-21. Seven soil borings were installed, SB-35 through SB-42 (attached Figure) as part of the focused soils investigation. Soil boring SB-35 was placed adjacent to soil boring SB-21 and advanced to 3 feet bgs. Soil samples were collected for analyses at 1 and 3 feet (bgs). At three feet bgs, an obstruction caused refusal, similar to boring SB-21. The obstruction is limited in lateral extent as all borings drilled at three feet from S-21 and SB-35 did not encounter the obstruction.

Soil borings SB-36 through SB-39 were located at approximately a 3-foot distance in a circular patter surrounding boring SB-21 (attached Figure). These borings were drilled to a maximum depth of 12 feet bgs and soil samples were collected at 1, 3, 5, 7, 10 and 12 feet bgs. Soil samples collected at 1, 3, 5 and 7 feet bgs were submitted to the laboratory for analyses, samples collected at 10 and 12 feet bgs were held pending the analytical results. Borings SB-37 and SB-36 were also located approximately 1 and 2-feet, respectively, from a concrete patch, where the former underground hydraulic line extended to the remote lift actuation lever (attached Figure).

Soil borings SB40 through SB-43 were located at approximately a 10-foot distance surrounding boring SB-21. These borings were also drilled to a maximum depth of 12 feet bgs and soil samples collected at 1, 3, 5, 7, 10 and 12 feet bgs. All soil samples from these borings were held pending the analytical results of the inner ring of samples.

Analytical Results

All FSI soil samples submitted for analyses were analyzed for SVOCs according to EPA method 8270. Analytical results of the focused investigation show detectable concentrations of three SVOCs in sample SB-35-1, which was collected at 1-foot bgs adjacent to soil boring SB-21. All were flagged as detected below the reporting limit but above the detection limit. Only one of the three SVOCs is a PAH and was detected in sample SB-21-0.5. All other results are non-detect at the laboratory detection limit. The attached table presents a summary of the analytical results from borings PEA boring SB-21



Ms. Jennifer Jones FSI – EVMS No. 1

Page - 4

and FSI borings SB-35 through SB-39. The laboratory report for samples SB-35 through SB-39 is also attached.

CONCLUSIONS and RECOMMENDATIONS

The following are our conclusions of the focused investigation:

- PAHs were detected at 0.5 and 1-foot bgs, in two borings drilled approximately 1-foot from each other (SB-21 and SB-35).
- All other FSI samples submitted for analyses were non-detect at the laboratory detection limit, including samples SB-36 and SB-37, collected adjacent to the underground trace of the hydraulic remote actuation lever line.
- Based on the analytical results and findings presented in this technical memorandum the extent of PAH and SVOC impacted soil has been adequately delineated and appears to be limited to less than 3-feet surrounding boring SB-21 and to a maximum depth of 3-feet bgs.
- The estimated volume of PAH and SVOC impacted soil is approximately 3 cubic yards or 4.5 tons.

Based on this data, Earth Tech concludes that Further Action is necessary and recommends that a RAW be prepared to address the removal of PAH and SVOC impacted soil.

If you have any questions or require further discussion, please contact Steve Williams at 562-951-2272 or Chris Ingalls at 213-633-8309.

Sincerely,

Earth Tech,

Steve Williams R.G., CHG

D with

Project Manager

cc: Chris Ingalls, LAUSD-OEHS



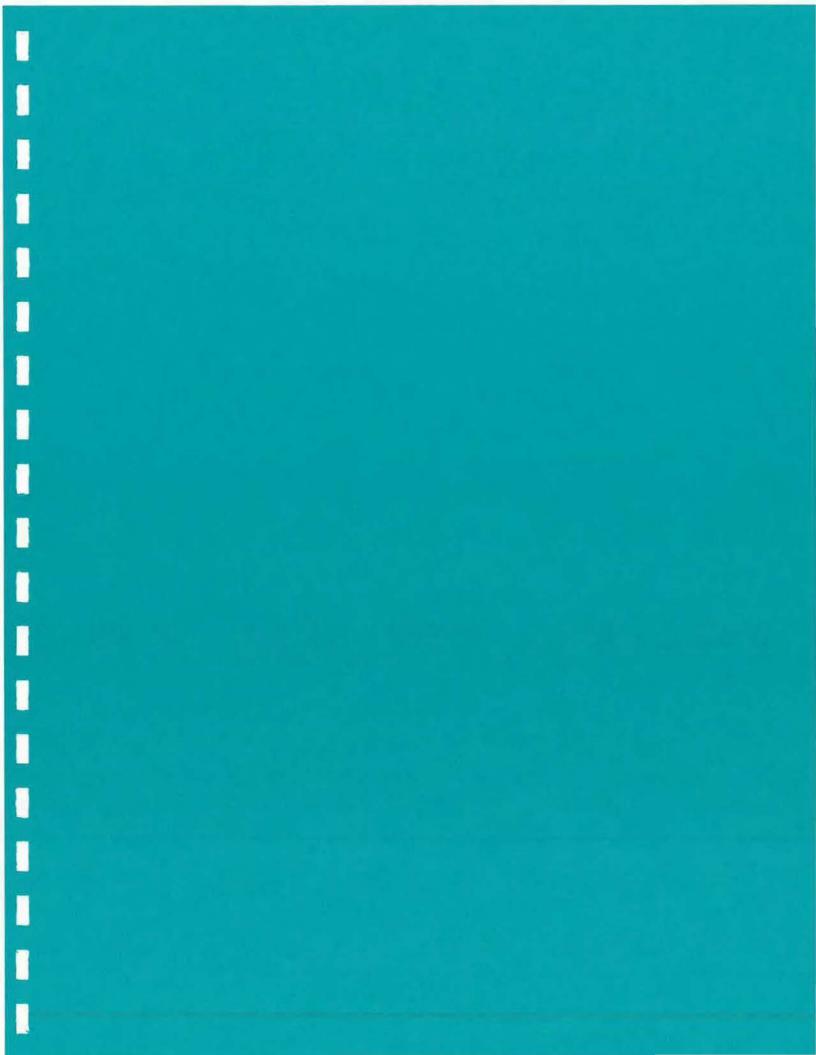
Ms. Jennifer Jones FSI – EVMS No. 1 Page - 5

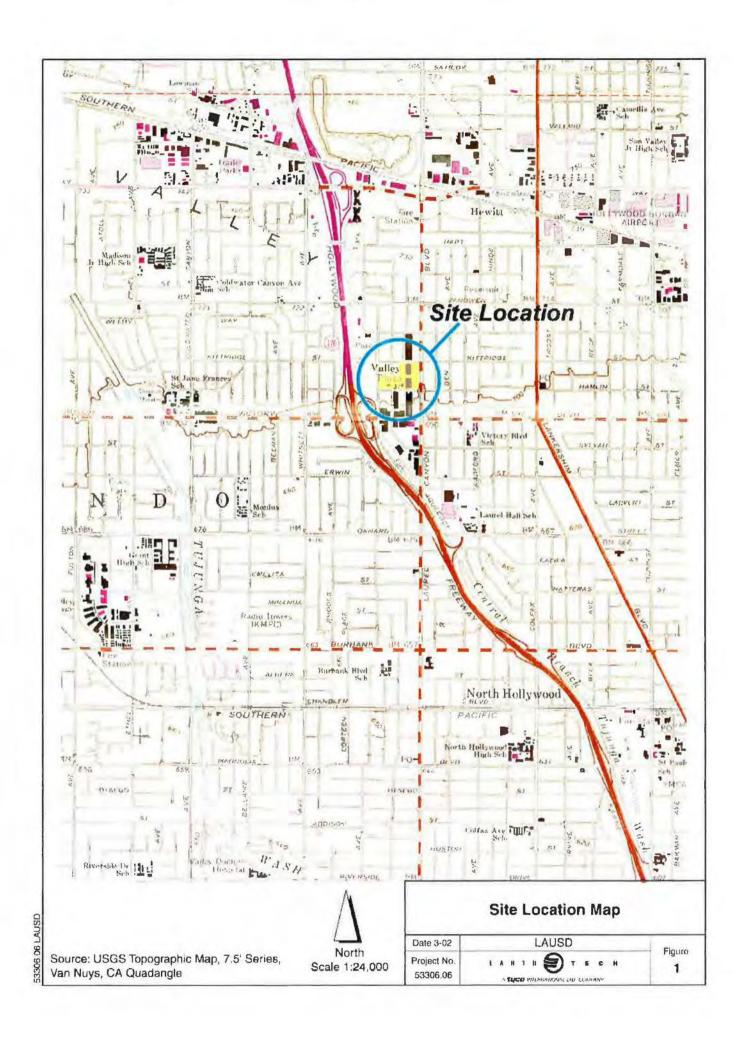
Attachments: Figure - Site Map

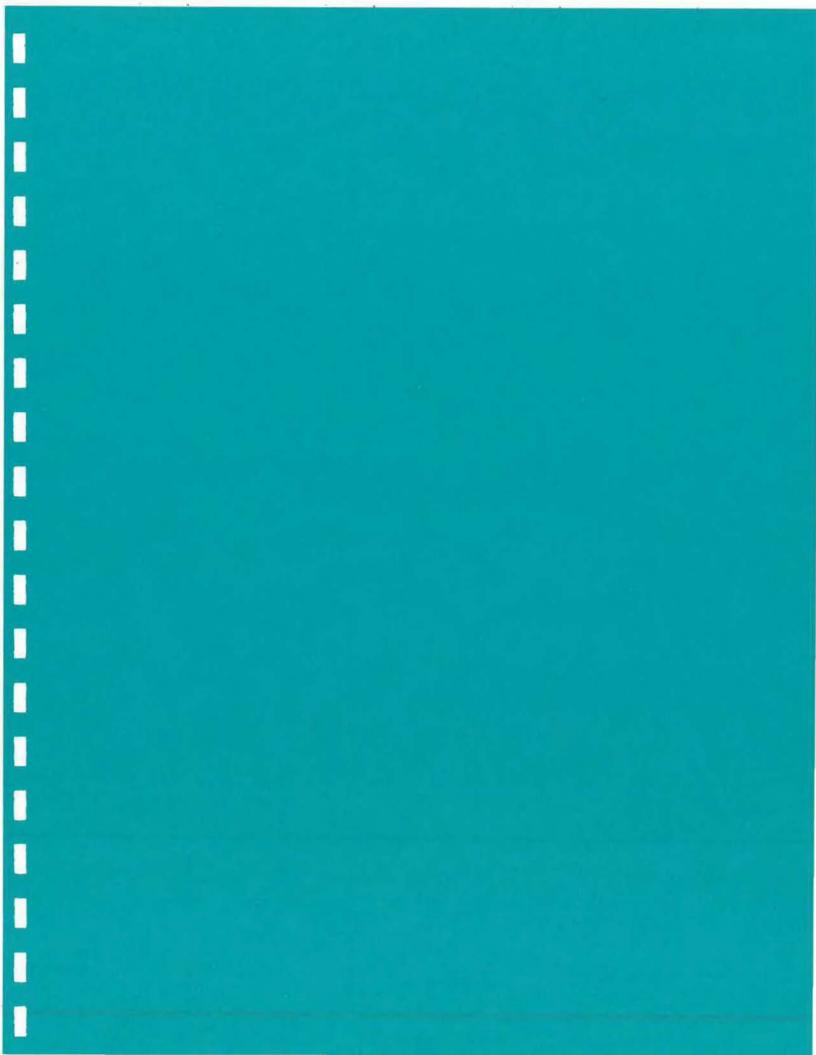
Figure - Soil Boring and Step-Out Boring Map

Table - Summary of Soil Analytical Results - SVOCs

Laboratory Report







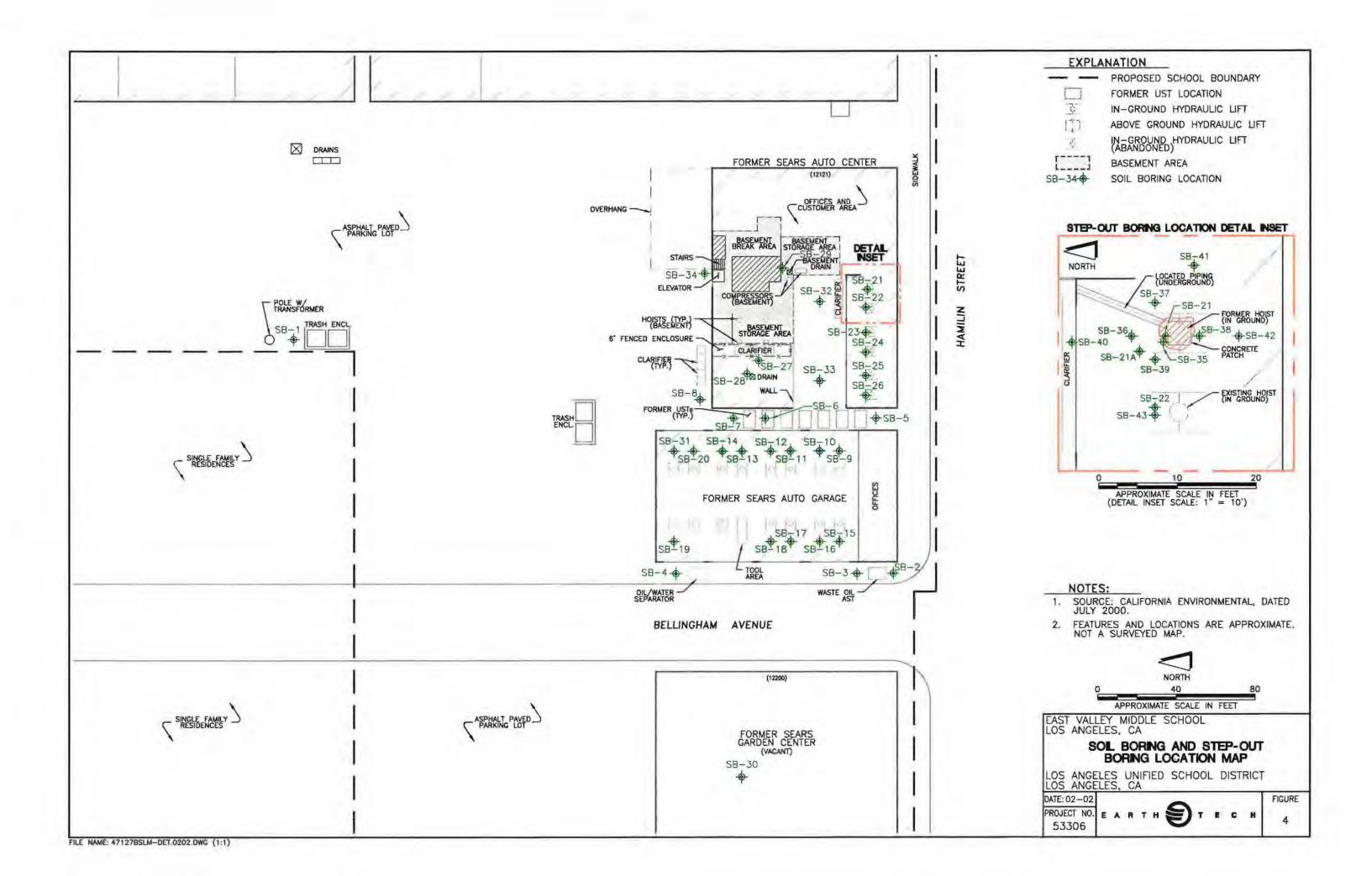


Table 1
Summary of Soil Analytical Data - SVQCs
Step Out Borings
Proposed East Valley Middle School No. 1

Sample Identification Date Sampled Depth (feet below ground sur	face)		SB-21-0.5 1/25/2002 0.5	SB-21-0.5-R 1/25/2002 0.5	SB-21-0.5-H 1/25/2002 0.5	SB-21-7 1/28/2002 7	SB-35-1 2/15/2002 1	S8-35-3 2/15/2002 3	SB-36-1 2/15/2002 1	\$8-36-3 2/15/2002 3
EPA 8270C Semi-Volatile Organics	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
N-Nitrosodimethylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Aniline	mg/kg	0,5	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	mg/kg	0.5	ND	ND I	ND I	ND	ND	ND	ND	ND
Bis(2-Chloroethyl) Ether	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1.4-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl Alcohol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	mg/kg	0.5	ND	ND	NO	ND	ND	ND	ND	ND
2-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroisopropyl) Ether	mg/kg	0.5	ND	ND I	ND	ND	ND	ND	ND	ND
3/4-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	mg/kg	0.5	NO	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	mg/kg	0,5	ND	ND	ND I	ND	ND	ND	ND	ND
2-Nitrophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	mg/kg	0.5	ND	ND	ND I	ND	ND	ND	ND	ND
Benzoic Acid	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chioroethoxy) Methane		0.5	ND	NO	ND I	ND	ND	ND	ND	ND
2,4-Dichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	NO	ND
Naphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloro-1,3-Butadiene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	NO	ND	ND	ND
2-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	mg/kg	0.4	ND.	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	mg/kg	1.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	mg/kg	0.5	ND	ND I	ND	ND	ND	ND	ND	ND
2-Nitroaniline	mg/kg	0.5	ND	ND I	NO I	ND	ND	ND	NO	ND
Dimethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	mg/kg	0.4	ND	ND	ND I	ND	ND	ND	ND	ND
3-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	mg/kg	2.5	ND	- ND	ND	ND	ND	ND	ND	ND

Table 1 Summary of Soil Analytical Data - SVOCs Step Out Borings Proposed East Valley Middle School No. 1

Sample Identification Date Sampled Depth (feet below ground surf	ace)		SB-21-0.5 1/25/2002 0,5	SB-21-0.5-R 1/25/2002 0.5	SB-21-0.5-H 1/25/2002 0.5	SB-21-7 1/28/2002 7	SB-35-1 2/15/2002 1	SB-35-3 2/15/2002 3	\$8-36-1 2/15/2002 1	SB-36-3 2/15/2002 3
EPA 8270C Semi-Volatile Organics(cont.)	Unit	MDL	Conc.	Conc.	Солс.	Conc.	Cons.	Conc.	Conc.	Conc.
	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
The state of the s	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2.4-Dinitrotoluene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	mg/kg	0.4	ND	ND	ND I	ND	ND	ND	ND	ND
4-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Azobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4.6-Dinitro-2-Methylphenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
	mg/kg	0.5	ND	ND	ND I	ND	ND	ND	ND	ND
	mg/kg	0.5	ND	ND.	ND	ND	ND	ND	ND	ND
	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	mg/kg	0.4	1.1	0.42	1.6	ND	0.12	ND	ND	ND
Anthracene	mg/kg	0.4	0.32J	0.13J	0.54	ND	ND	ND	ND	ND
Di-n-Butyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	0.15	ND	ND	ND
Fluoranthene	mg/kg	0.4	9.5	3.3	14	ND	ND	ND	ND	ND
Benzidine	mg/kg	10	ND	ND	ND	ND	ND	ND	ND	ND
	mg/kg	0.4	8.5	3.4	14	ND	ND	ND	ND	ND
NA STOCK DOLL	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
NOW THE PARTY OF T	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	mg/kg	0.5	ND	ND I	NO.	ND	ND	ND	NO	ND
	mg/kg	0.4	8.2	3.0	13	ND	ND	ND	ND	ND
	mg/kg	0.5	ND	ND	ND	ND	0.22	ND	ND	ND
	mg/kg	0.4	8.1	2.9	13	ND	ND	ND	ND	ND
Di-n-Octyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (k) Fluoranthene	mg/kg	0.4	7.5	2.6	11	ND	ND	ND	ND	ND
	mg/kg	0.4	7.4	2.8	12	ND	ND	ND	ND	ND
	mg/kg	0.35	7.5	2.7	12	ND	ND	ND	ND	ND
	mg/kg	0.4	2.6	1,2	4.7	ND	ND	ND	ND	ND
Dibenz (a,h) Anthracene	mg/kg	0.4	0.82	0.42	1.6	ND	ND	ND	ND	ND
	mg/kg	0.4	2.2	1.0	4.2	ND	ND	ND	ND	ND

Table 1
Summary of Soil Analytical Data - SVOCs
Step Out Borings
Proposed East Valley Middle School No. 1

Sample identification Date Sampled Depth (feet below ground sur	face)		SB-36-5 2/15/2002 5	\$8-36-7 2/15/2002 7	S8-37-1 2/15/2002 1	\$8-37-3 2/15/2002 3	SB-38-1 2/15/2002 1	SB-38-3 2/15/2002 3	SB-38-5 2/15/2002 5	SB-38-7 2/15/2002 7
EPA 8270C Semi-Volatile Organics	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
N-Nitrosodimethylamine	mg/kg	0.5	ND	ND	ND	ND	ND.	ND	ND	ND
Aniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroethyl) Ether	mg/kg	2,5	ND	ND	ND	ND	ND	ND	NO	ND
2-Chlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	mg/kg	0.5	ND	NO	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	mg/kg	0.5	ND	ND	NO	ND	NO	ND	ND	ND
Benzyl Alcohol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	mg/kg	0.5	ND	ND	ND.	ND	ND	ND	ND	ND
2-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	NO	ND	ND
Bis(2-Chloroisopropyl) Ether	mg/kg	0.5	ND.	ND	ND	ND	ND	ND	ND	ND
3/4-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	NO	ND
Hexachloroethane	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	mg/kg	0,5	ND	ND	ND	NO	ND	ND	ND	ND.
2-Nitrophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic Acid	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroethoxy) Methane	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND.	ND	ND	ND
Naphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloro-1,3-Butadiene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND.
4-Chloro-3-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	mg/kg	1.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	NO	ND
2-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	NO	ND	ND	ND
Dimethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	mg/kg	0.4	NO	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND

Table 1
Summary of Soil Analytical Data - SVOCs
Step Out Borings
Proposed East Valley Middle School No. 1

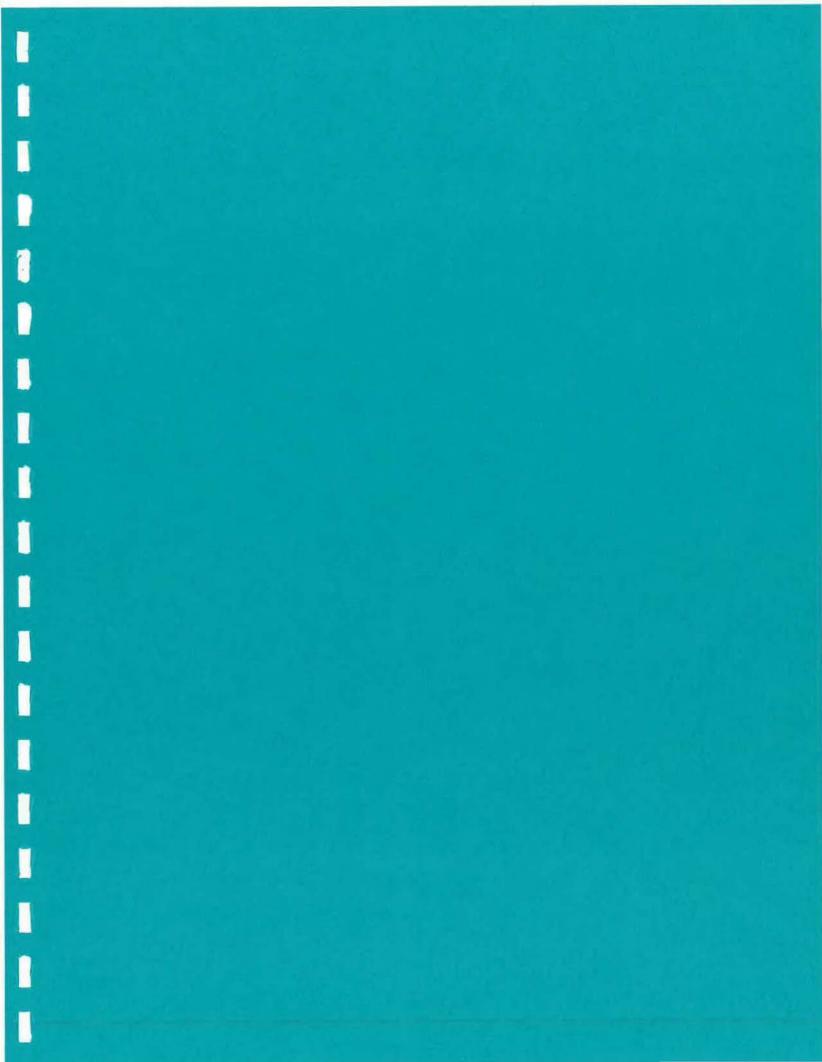
Sample identification Date Sampled Depth (feet below ground surface)		SB-36-5 2/15/2002 5	SB-36-7 2/15/2002 7	S8-37-1 2/15/2002 1	SB-37-3 2/15/2002 3	SB-38-1 2/15/2002 1	SB-38-3 2/15/2002 3	\$8-38-5 2/15/2002 5	SB-38-7 2/15/2002 7
EPA 8270C Semi-Volatile Organics(cont.) U	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Cone.	Conc.	Conc.
4-Nitrophenol mg/		ND	ND						
Dibenzofuran mg/		ND	ND						
2.4-Dinitrotoluene mg/		ND	ND	ND	ND	NO	ND	ND	ND
2.6-Dinitrotoluene mg/l	-	ND	ND						
Diethyl Phthalate mg/	4	ND	ND						
4-Chlorophenyl-Phenyl Ether mg/		ND.	ND	ND	ND	NO	ND	ND	ND
Fluorene mg/		ND	ND	ND	ND	NO	ND	ND	ND
4-Nitroaniline mg/	-	ND	ND	ND	ND	NO	ND	ND	ND
Azobenzene mg/		ND	ND	ND ND	ND	ND	ND	ND	ND
4.6-Dinitro-2-Methylphenol mg/	3	ND	ND	ND	ND	NO	ND	ND	ND.
N-Nitrosodiphenylamine mg/	-	ND	ND						
2,4,6-Trichlorophenol mg/		ND	ND						
4-Bromophenyl-Phenyl Ether mg/		ND	ND						
Hexachlorobenzene mg/	*	ND	ND						
Pentachlorophenol mg/	-	ND	ND						
Phenanthrene mg/		ND	ND						
Anthracene mg/	.5	ND	ND						
Di-n-Butyl Phthalate mg/l		ND	ND						
Fluoranthene mg/		ND	ND						
Benzidine mg/		ND	ND						
Pyrene mg/		ND	ND						
Pyridine mg/		ND	NO	ND	ND	ND	ND	ND	ND
Butyl Benzyl Phthalate mg/	- 2	ND	ND						
3.3'-Dichlorobenzidine mg/l	-	ND	ND						
Benzo (a) Anthracene mg/		ND	ND						
Bis(2-Ethylhexyl) Phthalate mg/l	-	ND	ND						
Chrysene mg/	4	ND	ND						
Di-n-Octyl Phthalate mg/i	9	ND	ND						
Benzo (k) Fluoranthene mg/		ND	ND						
Benzo (b) Fluoranthene mg/l		ND	ND						
Benzo (a) Pyrene mg/l	4	ND	NO	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) Pyrene mg/	42	ND	ND	ND I	ND	ND	ND	ND	ND
Dibenz (a,h) Anthracene mg/	-	ND	ND						
Benzo (g,h,i) Perylene mg/l		ND	ND						

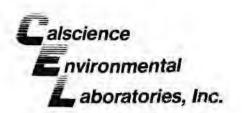
Table 1
Summary of Soil Analytical Data - SVOCs
Step Out Borings
Proposed East Valley Middle School No. 1

Sample Identification Date Sampled Depth (feet below ground sur	face)		SB-39-1 2/15/2002 1	\$8-39-3 2/15/2002 3	SB-39-5 2/15/2002 5	SB-39-7 2/15/2002 7
EPA 8270C Semi-Volatile Organics	Unit	MDL	Conc.	Conc.	Cans.	Conc.
N-Nitrosodimethylamine	mg/kg	0.5	ND	ND	ND.	ND
Aniline	mg/kg	0.5	ND	ND	ND	ND
Phenol	mg/kg	0.5	ND	ND	ND	ND
Bis(2-Chioroethyl) Ether	mg/kg	2.5	ND	ND	ND	ND
2-Chlorophenol	mg/kg	0.5	NO	ND	ND	ND
1,3-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	NO
1,4-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND
Benzyl Alcohol	mg/kg	0.5	ND	ND	ND	ND
1,2-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	NO.
2-Methylphenol	mg/kg	0.5	ND	ND-	ND	ND
Bis(2-Chloroisopropyl) Ether		0.5	ND	ND	ND	ND
3/4-Methylphenol	mg/kg	0.5	ND	ND	ND	NO
N-Nitroso-di-n-propylamine	mg/kg	0.5	ND	ND	ND	ND
Hexachloroethane	mg/kg	0.51	ND	ND	ND	ND
Nitrobenzene	mg/kg	2.5	ND	ND	ND	ND
sophorone	mg/kg	0.5	ND	ND	ND	ND
2-Nitrophenoi	mg/kg	0.5	ND	ND	ND	ND
2,4-Dimethylphenol	mg/kg	0.5	ND	ND	ND	ND
Benzoic Acid	mg/kg	2.5	ND	ND	ND	ND
Bis(2-Chloroethoxy) Methane		0.5	ND	ND I	ND	ND
2.4-Dichloraphenal	mg/kg	0.5	ND	ND	ND	ND
1,2,4-Trichlorobenzene	mg/kg	0.5	ND	ND	ND	ND
Vapnthalene	mg/kg	0.4	ND	ND	ND	ND
-Chiorogniline	mg/kg	0.5	ND	ND	ND	ND
Hexachlorg-1,3-Butadiene	mg/kg	0.5	ND	ND	ND	ND
I-Chloro-3-Methylphenol	mg/kg	0.5	ND	ND	ND	ND
2-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND
-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND
dexachlorocyclopentadiena	mg/kg	1.5	ND	ND	ND	ND
4.5-Trichlorophenel	mg/kg	0.5	ND	ND	ND	ND
2-Chloronaphthalene	mg/kg	0.5	ND	ND	ND	ND
-Nitroaniline	mg/kg	0.5	ND	ND.	ND	ND
Dimethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND
cenaphthylene	mg/kg	0.4	ND	ND	ND	ND
-Nitroanilina	mg/kg	0.5	ND	ND	ND	ND
Acenaphthene	mg/kg	0.4	ND	ND	ND	ND
2.4-Dinitrophenol	mg/kg	2.5	ND	ND	ND	NO

Table 1 Summary of Soil Analytical Deta: - SVOCs Step Out Borings Proposed East Valley Middle School No. 1

Sample identification Date Sampled Depth (feet below ground sur	face)		S8-39-1 2/15/2002 1	SB-39-3 2/15/2002 3	SB-39-5 2/15/2002 5	\$8-39-7 2/15/2002 7
EPA 8270C Semi-Volatile Organics(cont.)	Unit	MDL	Conc.	Conc.	Conc.	Conc.
4-Nitrophenol	mg/kg	0.5	ND	ND	ND	ND
Dibenzofuran	mg/kg	0.5	ND	ND	ND	ND
2.4-Dinitrotoiuene	mg/kg	0.5	ND	ND	ND	ND
2.6-Dinitrolojuene	mg/kg	0.5	ND	ND	ND	ND
Diethyl Phthalate	mg/kg	0.5	NO	ND	ND	ND
-Chlorophenyl-Phenyl Ether		0.5	ND	ND	ND	ND
Fluorene	mg/kg	0.4	ND	ND	ND	ND
1-Nitroaniline	mg/kg	0.5	ND	ND	ND I	ND
Azobenzene	mg/kg	0.5	ND	ND	NO	ND
4,6-Dinitro-2-Methylphenol	mg/kg	2.5	ND	NO	NO	ND
N-Nitrosodiphenylamine	mg/kg	0.5	ND	ND	ND	ND
4,5-Trichlorophenol	mg/kg	0.5	ND	ND	ND	ND
4-Bromophenyl-Phenyl Ether		0.5	ND:	ND	ND	ND
Hexachlorobenzene	mg/kg	0.5	ND	ND	ND	ND
Pentachlorophenol	mg/kg	2.5	ND	ND	ND	ND
Phenanthrene	mg/kg	0.4	ND	ND	ND	ND
Anthracene	mg/kg	0.4	ND	ND	ND	ND
Di-n-Butyl Phthalate	mg/kg	0.5	ND	ND	ND	ND
Fluoranthene	mg/kg	0.4	ND	ND	NO	ND
Benzidine	mg/kg	10	ND	ND	ND	ND
Pyrene	mg/kg	0.4	ND	ND	ND	ND
Pyridine	mg/kg	0.5	ND	ND	ND	ND
Butyl Benzyl Phthalate	mg/kg	0.5	ND	ND	ND	ND
3'-Dichlorobenzidine	mg/kg	0.5	ND	ND	ND	ND
Senzo (a) Anthracene	mg/kg	0.4	ND	ND	ND	ND
Bis(2-Ethylnexyl) Phthalate	mg/kg	0.5	ND	ND	ND	ND
Chrysene	mg/kg	0.4	ND	ND	NO	ND
Di-n-Octyl Phthalate	mg/kg	0.5	ND	ND	ND	ND
enzo (k) Fluoranthene	mg/kg	0.4	ND	ND	ND	ND
Benzo (b) Fluoranthene	mg/kg	0.4	ND	ND	ND	ND
Banzo (a) Pyrene	mg/kg	0.35	ND	ND	ND	ND
ndeno (1,2,3-c,d) Pyrena	mg/kg	0.4	ND	ND	ND	ND
Dibenz (a,h) Anthracene	mg/kg	0.4	ND	ND	ND	ND
Benzo (g,h,i) Perylene	mg/kg	0.4	ND	ND	ND	ND





February 25, 2002 PM09002

Steve Williams
Earth Tech
100 West Broadway, Suite 240
Long Beach, CA 90802-4432

Subject:

Calscience Work Order No.:

Client Reference:

02-02-0740

LAUSD-East Valley M. S. /53306

Dear Mr. Williams:

Calscience Environmental Laboratories, Inc. (Calscience) is pleased to submit herewith the subject analytical report. The narrative presented below summarizes our analytical effort and clarifies any quality control anomalies which appear in the report.

Sample Condition on Receipt

Forty-two soil samples were received as part of this Work Order on February 15, 2002. All samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature of the ice-chest was measured upon arrival in the laboratory and was within acceptable limit (4°C). The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary

Data is presented on a wet weight basis.

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks

The method blank data showed non-detectable levels for all constituents.

Matrix Spikes

Matrix spikes (MS) and matrix spike duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits.

Laboratory Control Samples

The Laboratory Control Sample (LCS) analysis was performed at the required frequency. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for all samples were within acceptable control limits with the exception of samples SB-5-1, SB-6-5 and SB-38-5. The surrogates 2-fluorophenol and 2,4,6-tribromophenol were outside the acceptable limits due to matrix effect.

If there are any questions regarding this report, please contact the undersigned at (714) 895-5494.

Sincerely,

Calscience Environmenta

Laboratories, Inc.

Marycarol Valenzuela

Project Manager

Michael J. Crisostomo

Quality Assurance Manager





A THEO INTERNATIONAL LTD COMPANY

										Custody Seal #			11	Rust E&1 Cooler #						
53304 EAST			Name/Client Lauso						Analysis Require				ired	ed			Matrix			
			racing Mis.														Sample Type	Sample Contain		
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3	58-39-5		0956						X											
4	56-31-7		0957						×											
5	58-39-10		1004							×	1									
6	58-35-12		1005		10/8					X						Ш				
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EARTH STECH 7/3

(67HO)

A TINCO INTERNATIONAL LTD COMPANY

													C	ustody	Seal #			Rus	t E&I Co	ooler#		
	et Number		ne/Client								Analysis	Requ	ired						М	atrix		
5	306	EAST 0	ALLEY	M	. 5													Sample	Туре	Sai	mple Co	ontaine
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5	\$5-41-7			0838						×					12							
6	58-41-10			0845						X												
7	58-41-12			0847						X									100			
8	58.42-1			0605				C 4		×							TE					
9	SB-42-3			0656						X	34 2									74		-
10	54-42-5			0700						X									12			
11	58-42-7			5702						x	HULL		4.0		- 17 71		151					
12	58-92-10			27/0				10.00		X												
13	58-42-12			0711						×												
14	58-76-1			0727					X		12											
15	58-34-3			0729				-	×	121 15	117				9	Ш						
16	51-2-5			0932	Ш				X													
17	58-78-7		- 4 - 4	0733			-11		X									1				
18	58-36-10		1	0940	1		1			X								X		X		
	uished by: (Signature	12_		2/15	ory 1	me 445		by Signa	1				Disposed	fof hy: (Signature)		liems	3			Date / Ti	me .
teling	pished by: (Signature			Da	ie/Ti	ne	Received	by. (Sigha	ure)-	~			Disposed	lofby: (Signature)		lteins	*			Date / Ti	(The
end I	The Results To Steel BROAPLAN	y STE 24	ins	Rema			HER T					Sampl	very Met es delive on carrie	red in per	rson	Cust	ody Se	Receiving		u		
					ıh:						113	70.00						100	namer:			
-ta	* (562) 95	51-2006			hite C	100			****	w Copy -			2011-7	k Copy		Sam	ple Cr	adition.				

1/514/harth Sci



Rev 10/98



Custody Seal # Rust E&I Cooler # Project Number Project Name/Client LAUSD Analysis Required Matrix EAST VALLEY M.S. 53306 Sample Type Sample Container Sample Custodian: (Signature) LAUXENCE BROWNE / 0 527 PID Time of ltem Sample Description Reading Label No. (Field ID Number) Date (ppm) Number 415/02 0941 X 6 SB-76-12 1 2 5B-38-1 0719 X 3 58-38-3 × 4 2-85-82 X 5 CR-32-7 x 6 SK-38-10 × 7 5x-39-12 8 3) 10 11 12 13 14 15 16 17 18 Relinquished by: (Signuage) Date / Time Received by (Signature) Disposed of by: (Signature) Items: Date / Time 2/18/2/1445 Remoulshed by: (Signature) Date / Time Received by: (Signature) Disposed of by: (Signature) Hems: Date / Time Kend I ah Results Tustero WILLIAM 5 Remarks: Check Delivery Method: Laboratory Receiving Notes: 24 TAT low BROADWAY STERAO Samples delivered in person Custody Seal Intact? Federal Express Airbill No.: Common carrier Temp, of Shipping Container. Lab: fax (562) 951-2086 Sample Condition: White Copy - Lah

Yellow Copy - File

Pink Copy - Client

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC. Sample Summary Report

WORK ORDER #: 02-02-0740 QAPP: 0117

#	Client Sample ID	Matrix	Date Collected	NoC	Comment
1	SB-39-1	S	02/15/2002	1	
2	SB-39-3	S	02/15/2002	1	
3	SB-39-5	S	02/15/2002	1	
4	SB-39-7	S	02/15/2002	1	
5	SB-39-10	S	02/15/2002	1	
6	SB-39-12	S	02/15/2002	1	
7	SB-37-1	S	02/15/2002	1	
8	SB-37-3	S	02/15/2002	1	
9	SB-40-1	S	02/15/2002	1	
10	SB-40-3	S	02/15/2002	1	
11	SB-40-5	S	02/15/2002	1	
12	SB-40-7	S	02/15/2002	1	
13	SB-40-10	S	02/15/2002	1	
14	SB-40-12	S	02/15/2002	1	
15	SB-5-1	S	02/15/2002	1	
16	SB-5-3	S	02/15/2002	1	
17	SB-43-1	S	02/15/2002	1	
18	SB-43-3	S	02/15/2002	1	
19	SB-43-5	S	02/15/2002	1	
20	SB-41-3	S	02/15/2002	1	
21	SB-41-5	S	02/15/2002	1	
22	SB-41-7	S	02/15/2002	1	
23	SB-41-10	S	02/15/2002	1	
24	SB-41-12	S	02/15/2002	1	
25	SB-42-1	S	02/15/2002	1	
26	SB-42-3	S	02/15/2002	1	
27	SB-42-5	S	02/15/2002	1	
28	SB-42-7	S	02/15/2002	1	
29	SB-42-10	S	02/15/2002	1	
30	SB-42-12	S	02/15/2002	1	
31	SB-36-1	S	02/15/2002	1	
32	SB-36-3	S	02/15/2002	1	
33	SB-36-5	S	02/15/2002	1	

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC. Sample Summary Report

WORK ORDER #: 02-02-0740 QAPP: 0117

# 34	Client Sample ID SB-36-7	Matrix S	Date Collected 02/15/2002	NoC 1	Comment
35	SB-36-10	S	02/15/2002	1	
36	SB-36-12	S	02/15/2002	1	
37	SB-38-1	S	02/15/2002	1	
38	SB-38-3	S	02/15/2002	1	
39	SB-38-5	S	02/15/2002	1	
40	SB-38-7	S	02/15/2002	1	
41	SB-38-10	S	02/15/2002	1	
42	SB-38-12	S	02/15/2002	1	



WORK ORDER #:	02-0	2-0	74	0
---------------	------	-----	----	---

Cooler ____ of ____

SAMPLE RECEIPT FORM

CLIENT: CONTE		DATE: 2-15-02
CALSCIENCE COUR Chilled, cooler Chilled, cooler Chilled and pla	with temperature blank provided. without temperature blank, aced in cooler with wet ice. blaced in cooler with wet ice. erature.	LABORATORY (Other than Calscience Coul C Temperature blank. C IR thermometer. Ambient temperature.
CUSTODY SEAL IN	NTACT:	
Sample(s):	Cooler: No (Not Inta	not Applicable (N/A):
Sample container label(Sample container(s) into Correct containers for a Proper preservation not VOA vial(s) free of head	ment(s) received with sampless) consistent with custody papers act and good condition nalyses requested ed on sample label(s)	
COMMENTS:		

alscience nvironmental aboratories, Inc.

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No:

02/15/02 02-02-0740

Preparation:

EPA 3545

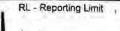
Method:

EPA 8270C

Project: LAUSD East Valley M.S./53306

Page 1 of 17

Client Sample Number				Sampl umber	le	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	h ID
SB-39-1			02-	02-074	10-1	02/15/02	Solid	02/15/02	02/18/02	0	20215	4
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ne	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	te	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl	-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe	nylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro	phenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny		ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben	The second secon	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	dibio	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pl	othalata	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	NO	0.40	- 1		mg/kg	Bis(2-Ethylhex)		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1				yı, Fillialate	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	4		mg/kg mg/kg	Chrysene Di-n-Octyl Phth	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1					ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1		mg/kg
2-Nitroaniline		1.00	1		mg/kg	Benzo (b) Fluo			0.40	1		
	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND		-		mg/kg
Dimethyl Phthalate	ND	0.50	†		mg/kg	Indeno (1,2,3-o	The state of the s	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0,40			mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	eryiene	ND	0,40	1		mg/kg
Acenaphthene Surrogates	ND REC (%)	0.40 Control	1	Qua	mg/kg I	Surrogates:		REC (%)	Control	a l	Qual	
2-Fluorophenol	00	Limits				Dinnel de		105	<u>Limits</u> 30-136			
	99	31-142				Phenol-d6		105				
Nitrobenzene-d5	100	28-139				2-Fluorobiphen		97	33-144			
2,4,6-Tribromophenol	85	24-152				p-Terphenyl-d1	4	96	23-160			



Lalscience nvironmental aboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 02/15/02 02-02-0740 EPA 3545

Method:

EPA 8270C

Project: LAUSD East Valley M.S./53306

Page 2 of 17

Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
SB-39-3			02-	02-074	0-2	02/15/02	Solid	02/15/02	02/18/02	0	20215	4
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropher	iol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0,50	1		mg/k
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
3is(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ine	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ne	ND	0.50	1		mg/kg
,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	ite	ND	0.50	1		mg/kg
,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chloropheny	-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	Total of the P	ND	0.40	1		mg/kg
,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0,50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe	A CONTRACTOR OF THE PARTY OF TH	ND	0.50	1		mg/kg
V-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro	200	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny		ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorober	The state of the s	ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachloroph		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl P	hthalate	ND	0.50	1		mg/kc
Hexachloro-1,3-Butadiene	ND	0.50	-		mg/kg	3.3'-Dichlorobe		NO	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50			mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40			mg/kg	Bis(2-Ethylhex		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	,, , , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ND	0.40	+		mg/kg
Hexachlorocyclopentadiene	ND	1.5	4		mg/kg	Di-n-Octyl Phtl	nalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50			mg/kg	Benzo (a) Pyre		NO	0.35	7		mg/kg
Z-Nitroanline Dimethyl Phthalate	ND	0.50	1		mg/kg mg/kg	Indeno (1,2,3-		NO	0.40	1		mg/k
Acenaphthylene	ND	0.50			the state of the s	Dibenz (a,h) A	The state of the s	ND	0.40	1		mg/kg
SCOLL SOUND			1		mg/kg	The second secon		ND	0.40	1		mg/k
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g.h,i) P	erylene	MD	0.40	1		mgrk
Acenaphthene Surrogates:	ND REC (%)	0.40 Control Limits	1	Qua	mg/kg !	Surrogates:		REC (%)	Control		Qual	
2-Fluorophenol	93	31-142				Phenol-d6		100	30-136			
Nitrobenzene-d5	95	28-139				2-Fluorobipher	ıvl	94	33-144			
2,4,6-Tribromophenol	84	24-152				p-Terphenyl-d	*	94	23-160			

RL - Reporting Limit ,

DF - Dilution Factor

Qual - Qualifiers

Lalscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

PRELIMINARY DATA QC REVIEW PENDING

Earth Tech 100 West Broadway, Suite 240

Long Beach, CA 90802-4432

Date Received: Work Order No:

Work Order No: 02-02-0740
Preparation: EPA 3545

Method:

EPA 8270C

02/15/02

Project: LAUSD East Valley M.S./53306

Page 3 of 17

Client Sample Number			28 700	Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	h ID
SB-39-5			02-	02-074	0-3	02/15/02	Solid	02/15/02	02/18/02	0	20215	4
Parameter .	Result	RL	<u>OF</u>	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropher	lor	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	ate	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chloropheny	I-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	lethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny		ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorober	the second second	ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachloroph		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	- 1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	4		mg/kg	Di-n-Butyl Phth	nalata	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	idioto	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	9		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl P	hthalata	ND	0.50	4		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
	ND	0.50	- 4					ND	0.40	1		mg/kg
4-Chloro-3-Methylphenol 2-Methylnaphthalene	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.50	1		mg/kg
	ND		1		mg/kg	Bis(2-Ethylhex	yı rumanan	ND	0.40	-		mg/kg
1-Methylnaphthalene	ND	0.40 1.5	1		mg/kg	Chrysene	halata	ND	0.50	1		mg/kg
Hexachlorocyclopentadiene 2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Di-n-Octyl Phti		ND	0.40	1		mg/kg
					mg/kg	Benzo (k) Fluo			0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		NO	0.40	1		mg/kg mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	1000	1		
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-	The state of the s	ND	0.40	9		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A		ND	0.40	,		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benza (g,h,i) F	erylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0,40	1		mg/kg	Amareta		222 30	1			
Surrogates:	REC (%)	Control Limits	9	Qua	Ī	Surrogates:		<u>REC (%)</u>	<u>Control</u> <u>Limits</u>		Qual	
2-Fluorophenol	58	31-142				Phenol-d6		91	30-136			
Nitrobenzene-d5	99	28-139				2-Fluorobipher		98	33-144			
2,4,6-Tribromophenol	19	24-152		2		p-Terphenyl-d	14	95	23-160			

RL - Reporting Limit ,

DF - Dilution Factor

Qual - Qualifiers

ANALYTICAL REPORT

Lalscience nvironmental aboratories, Inc.

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

Work Order No: Preparation:

Method:

02/15/02

02-02-0740 EPA 3545

Project: LAUSD East Valley M.S./53306

Page 4 of 17

EPA 8270C

Client Sample Number				Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
SB-39-7			02-	02-074	10-4	02/15/02	Solid	02/15/02	02/18/02		20215	_
<u>Parameter</u>	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND.	0.50	1		mg/kg	2,4-Dinitrophen	iol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	te	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	- 1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	o of Prepared	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe	Contract of the Contract of th	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	4		mg/kg	2,4,6-Trichloro		ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl		ND	0.50	1		mg/kg
Nitrobenzene	ND	2,5	1		mg/kg	Hexachloroben	The state of the s	ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	31101	ND	0.40	- 4		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	4		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	4		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	alate	ND	0.40	4		
2,4-Dichlorophenol	ND	0.50	4		mg/kg	Benzidine		ND	10	4		mg/kg mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40			
Naphthalene	ND	0.40	4		mg/kg	Pyridine		ND	0.50			mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pl	hthalata	ND	0.50			mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1			3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	and the second s		ND	0.50	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Benzo (a) Anth		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)	(i) Phinalate	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Chrysene	where	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50			mg/kg	Di-n-Octyl Phth		0.240	5000			mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (k) Fluor	Account of the Control of the Contro	ND	0.40	1		mg/kg
2-Nitroaniline	ND				mg/kg	Benzo (b) Fluor		ND	0.40	1		mg/kg
Dimethyl Phthalate	1 000	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Cold Chies a November 1	ND	0.50	1		mg/kg	Indeno (1,2,3-c	are a second	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1		mg/kg
Acenaphthene Surrogates:	ND REC (%)	0.40 Control	1	Qual	mg/kg	Surrogates:		REC (%)	Control		Qual	
		Limits						1	Limits			
2-Fluorophenol	92	31-142				Phenol-d6		98	30-136			
Nitrobenzene-d5	95	28-139				2-Fluorobiphen	yi	91	33-144			
2,4,6-Tribromophenol	81	24-152				p-Terphenyl-d1	•	94	23-160			

RL - Reporting Limit

DF - Dilution Factor

Qual - Qualifiers

Lalscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240

Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation:

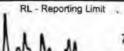
Method:

02/15/02 02-02-0740 EPA 3545 EPA 8270C

Project: LAUSD East Valley M.S./53306

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Client Sample Number				Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	OC Ba	atch 1D
SB-37-1			02-	02-074	10-7	02/15/02	Solid	02/15/02	02/18/02	0202	154
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qui	al Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropher	noi	ND	2.5	1	mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1	mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
3is(2-Chloroethyl) Ether	ND	2.5	- 1		mg/kg	2,4-Dinitrotolue	ene	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ene	ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	ate	ND	0,50	1	mg/kg
1,4-Dichlorobenzene	ND	0,50	- 1		mg/kg	4-Chloropheny	-Phenyl Ether	ND	0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	1000	ND	0.40	1	mg/kg
1.2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	lethylphenol	ND	2.5	1	mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1	mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	1	mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorober		ND	0.50	1	mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachloroph	COLUMN TO THE PARTY OF THE PART	ND	2.5	1	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.000	ND	0.40	1	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	nalate	ND	0.50	1	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		NO	0.40	1	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1	mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1	mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl P	hthalate	ND	0.50	1	mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1	mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex		NO	0.50	1	mg/kg
1-Methylnaphthalene	ND	D.40	1		mg/kg	Chrysene	10 1 Imparte	ND	0.40	1	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phti	halate	ND	0.50	1	mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1	mg/kg
2-Nitroaniline	NO	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-		ND	0.40	1	mg/kg
Acenaphthylene	ND		1		mg/kg mg/kg	Dibenz (a,h) A		ND	0.40	1	mg/kg
3-Nitroaniline	ND	0.40	1					ND	0.40	1	mg/kg
A CONTRACTOR OF THE PROPERTY O	ND	0.50	1		mg/kg	Benzo (g,h,i) F	crylene	140	0.40		many
Acenaphthene Surrogates:	REC (%)	Control Limits	1	Qua	mg/kg	Surrogates:		REC (%)	Control	Qu	al
2-Fluorophenol	90	31-142				Phenol-d6		96	30-136		
Nitrobenzene-d5	95	28-139				2-Fluorobipher	nvl	94	33-144		
2,4,6-Tribromophenol	83	24-152				p-Terphenyl-d		94	23-160		



DF - Dilution Factor .

alscience nvironmental aboratories, Inc.

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

02/15/02 Work Order No: 02-02-0740

Preparation:

EPA 3545

Method:

EPA 8270C

Project: LAUSD East Valley M.S./53306

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Client Sample Number	- 3			Samp umber	le	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	h ID
SB-37-3			02-	02-074	10-8	02/15/02	Solid	02/15/02	02/18/02	0	20215	4
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropher	iol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
henol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
lis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ne	ND	0.50	1		mg/kg
,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	te	ND	0.50	1		mg/kg
,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chloropheny	-Phenyl Ether	ND	0.50	1		mg/kg
enzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
is(2-Chloroisapropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	NO	2.5	1		mg/kg
/4-Methylphenol	ND	0,50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
I-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1		mg/kg
lexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny		ND	0.50	1		mg/kg
Vitrobenzene	ND	2.5	1		mg/kg	Hexachloroben	The second secon	ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	UILIU	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Vaphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pl	othalata	ND	0.50	1		mg/kg
exachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)		ND	0.40	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	n/ Filmalate	ND	0.40	1		mg/kg mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alata	ND	0.40	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.50	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		P. 1750 1750			ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (b) Fluo			0.40	1		mg/kg
Dimethyl Phthalate	ND	1000	1		mg/kg	Benzo (a) Pyre		ND	16-19-12	1		
Acenaphthylene	ND	0.50	1		mg/kg	Indeno (1,2,3-d		ND	0.40			mg/kg
3-Nitroaniline	7.54	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/kg
	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1		mg/kg
Acenaphthene Surrogates:	ND REC (%)	Control	1	Qual	mg/kg	Surrogates:		REC (%)	Control		Qual	
2-Fluorophenol	94	Limits				Phenol-d6		00	<u>Limits</u> 30-136			
2-Fluorophenol Nitrobenzene-d5		31-142					100	99	1 T 4 T 5 T 5 T 5 T 5 T 5 T 5 T 5 T 5 T 5			
	99	28-139				2-Fluorobiphen		97	33-144			
2,4,6-Tribromophenol	86	24-152				p-Terphenyl-d1	4	97	23-160			



DF - Dilution Factor .

Qual - Qualifiers

Lalscience nvironmental Laboratories, Inc.

ANALYTICAL REPORT

PRELIMINARY DATA QC REVIEW PENDING

Date Received:

02/15/02 02-02-0740

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Earth Tech

Work Order No: Preparation:

EPA 3545

Method:

EPA 8270C

Project: LAUSD East Valley M.S./53306

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Client Sample Number			Lab	Samp imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	Bate	ch ID
SB-5-1			02-	02-074	0-15	02/15/02	Solid	02/15/02	02/18/02	0	20215	4
Parameter .	Result	RL	DE	Qual	Units	Parameter		Result	RL	DE	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropher	ool	ND	2.5	1		mg/kg
Anillne	NO	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	ite	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chloropheny		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	lethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0,50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny		ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorober	The state of the s	ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachloroph		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		0.12	0.40	1	J	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	nalate	0.15	0.50	1	J	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	ionite.	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	-1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl P	hthalate	ND	0.50	1		mg/kg
	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.40	1			Bis(2-Ethylhex		0.22	0.50	1	J	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	the state of the s	yi/ Fillialate	ND	0.40	1		mg/kg
1-Methylnaphthalene					mg/kg	Chrysene Di-n-Octyl Pht	heleto	ND	0.50	4		mg/kg
Hexachlorocyclopentadiene	ND	1.5 0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1		mg/kg
2,4,5-Trichlorophenol	ND				mg/kg			ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.35	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-6	The second second	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A						
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) F	erylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg			DEC 1011			0	
Surrogates:	REC (%)	Control Limits		Qua	1	Surrogates:		REC (%)	<u>Control</u> <u>Limits</u>		Qual	
2-Fluorophenol	2	31-142		2		Phenol-d6		50	30-136			
Nitrobenzene-d5	99	28-139				2-Fluorobipher		100	33-144			
2,4,6-Tribromophenol	0	24-152		2		p-Terphenyl-d	14	100	23-160			

RL - Reporting Limit ,

DF - Dilution Factor .

Calscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method;

02/15/02 02-02-0740 EPA 3545

EPA 8270C

Project: LAUSD East Valley M.S./53306

Page 8 of 17

lient Sample Number		Lab Sample Number		Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID		
SB-5-3			02-0	02-0740	0-16	02/15/02	Solid	02/15/02	02/18/02	0	20215	4
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1	1	mg/kg	2,4-Dinitropher	nol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1	-	mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1	1	mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1	1	mg/kg	2,4-Dinitrotolue	ene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ene	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1	1	mg/kg	Diethyl Phthala	ite	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1	1	mg/kg	4-Chloropheny	I-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1	1	mg/kg	Fluorene	Mar de marie	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1	1	mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	lethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND-	0.50	1	1	mg/kg	N-Nitrosodiphe	nylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro	And the second second	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny		ND	0.50	1		mg/kg
Nitrobenzene	ND	2,5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophi		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	nalate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl P	hthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe	Service and the service and th	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex	A SECTION OF THE PARTY OF THE P	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	nalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo	WE 1.40	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A		ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND.	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	Danies (Aluit)	or justice	130	44	100		
Surrogates:	REC (%)	Control Limits		Qual	mg/ng	Surrogates:		REC (%)	Control		Qual	
2-Fluorophenol	91	31-142				Phenol-d6		95	30-136			
Nitrobenzene-d5	83	28-139				2-Fluorobipher	nví	85	33-144			
2,4,6-Tribromophenol	83	24-152				p-Terphenyl-d1	A 10.	93	23-150			

RL - Reporting Limit

DF - Dilution Factor ,

Qual - Qualifiers

Lalscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240

Long Beach, CA 90802-4432

Date Received:

02/15/02

Work Order No:

02-02-0740

Preparation: Method: EPA 3545 EPA 8270C

Project: LAUSD East Valley M.S./53306

Page 9 of 17

Client Sample Number	Sample Number		Lab Sample Number		Date Collected	Matrix	Date Prepared	ared Analyzed		ch ID	
SB-36-1			02-	02-074	0-31	02/15/02	Solid	02/15/02	02/18/02	02021	54
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qua	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropher	nol	ND	2.5	1	mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0,50	1	mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ene	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ene	ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	ite	ND	0.50	1	mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chloropheny	I-Phenyl Ether	ND	0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	lethylphenol	ND	2.5	1	mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe	nylamine	ND	0.50	1	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro	phenol	ND	0.50	1	mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny	I-Phenyl Ether	ND	0.50	1	mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben	zene	ND	0.50	1	mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe	enol	ND	2.5	1	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1	mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1	mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pl	hthalate	ND	0.50	1	mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1	mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth	200-100	ND	0.40	1	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)	of the last of the	ND	0.50	1	mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	4	ND	0.40	1	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	nalate	ND	0.50	1	mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo	1.0.00	ND	0.40	1	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1	mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0.40	1	mg/kg
3-Nitroaniline	ND	0.50	- 1		mg/kg	Benzo (g,h,i) P		ND	0.40	1	mg/kg
Acenaphthene	ND	0.40	1		mg/kg	3-11-1-131111/1			4		33
Surrogates:	REC (%)	Control		Qual	100000	Surrogates:		REC (%)	Control	Qua	0
2-Fluorophenol	95	31-142				Phenol-d6		99	30-136		
Nitrobenzene-d5	86	28-139				2-Fluorobiphen	VI	88	33-144		
2,4,6-Tribromophenol	83	24-152				p-Terphenyl-d1	*	96	23-160		



alscience nvironmental aboratories, Inc.

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

02/15/02

Work Order No: Preparation:

02-02-0740 **EPA 3545**

Method:

EPA 8270C

Project: LAUSD East Valley M.S./53306

Page 10 of 17

lient Sample Number		150 5 750	Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	h ID	
SB-36-3			02-	02-074	0-32	02/15/02	Solid	02/15/02	02/18/02	0	20215	4
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DE	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	iol	ND	2.5	4		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ne	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	ite	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyi	I-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro	10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny		ND	0.50	1		mg/kg
Vitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	-0.191	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	- 1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pi	hthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	i		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	NY I IIII alate	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	•		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1			The state of the s	Service Servic	ND	0.40	1		mg/kg
Dimethyl Phthalate	ND	0.50			mg/kg	Benzo (a) Pyre		ND	0.40	1		
Acenaphthylene	ND	19.52.0	1		mg/kg	Indena (1,2,3-c		ND	0.40	7		mg/kg
3-Nitroaniline		0.40	1		mg/kg	Dibenz (a,h) Ar			550 650	1		mg/kg
	ND	0.50	1		mg/kg	Benzo (g,h,i) P	eryiene	ND	0.40	1		mg/kg
Acenaphthene Surrogates:	ND REC (%)	0.40 Control	1	Qual	mg/kg	Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	95	<u>Limits</u> 31-142				Phenol-d6		101	30-136			
Nitrobenzene-d5	96	28-139				2-Fluorobiphen	red.	97	33-144			
2,4,6-Tribromophenol												
z,+,o-thoromophenoi	92	24-152				p-Terphenyl-d1	4	102	23-160			



DF - Dilution Factor ,

Qual - Qualifiers

Lalscience nvironmental aboratories, Inc.

ANALYTICAL REPORT

PRELIMINARY DATA QC REVIEW PENDING

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method:

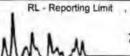
02-02-0740 EPA 3545 EPA 8270C

02/15/02

Project: LAUSD East Valley M.S./53306

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Client Sample Number	t Sample Number		Lab Sample Number				Date Prepared	Date Analyzed	QC Batch ID			
SB-36-5			02-	02-074	0-33	02/15/02	Solid	02/15/02	02/18/02	0:	20215	4
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ne	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	te	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	10.007	ND	0.40	1		mg/kg
1.2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl		ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alata	ND	0.50	4		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	alate	ND	0.40	1		mg/kg
	ND	0.50	1			Benzidine		ND	10	1		mg/kg
2,4-Dichlorophenol			1		mg/kg			ND	0.40	1		mg/kg
1,2,4-Trichlorobenzene	NO	0.50			mg/kg	Pyrene		ND	0.50	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	th alata	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Ph		ND	0.50			mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe			-	1		
4-Chloro-3-Methylphenol	NO	0.50	1		mg/kg	Benzo (a) Anth		NO	0.40			mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)	n) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene		ND	0.40			mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth		ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluor		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Banzo (g,h,i) P	erylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg						3	
Surrogates:	REC (%)	Control		Qua	1	Surrogates:		REC (%)	<u>Control</u> <u>Limits</u>		Qual	
2-Fluorophenol	38	31-142				Phenol-d6		81	30-136			
Nitrobenzene-d5	84	28-139				2-Fluorobiphen	yl	87	33-144			
2.4,6-Tribromophenol	2	24-152		2		p-Terphenyl-d1	4	81	23-160			



DF - Dilution Factor

Qual - Qualifiers

Lalscience nvironmental aboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Sulte 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

Method:

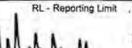
02/15/02 02-02-0740 EPA 3545

EPA 8270C

Project: LAUSD East Valley M.S./53306

Page 12 of 17

ient Sample Number			Lab Sample Number		Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Batc	h ID	
SB-36-7			02-	02-074	10-34	02/15/02	Solid	02/15/02	02/18/02	02	0215	4
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF :	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropher	iol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
3is(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ene	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ene	ND	0.50	1		mg/kg
,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	ite	ND	0.50	1		mg/kg
,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chloropheny	-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe	nylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro	phenol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny	I-Phenyl Ether	ND	0.50	1		mg/kg
Vitrobenzene	ND	2.5	1		mg/kg	Hexachlorober	and the same of th	ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachloroph	enol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	- 1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Vaphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl P	hthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3.3'-Dichlorobe		ND	0.50	1		mg/kg
1-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth	Carry Mary	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	707 (1000-1414)	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	NO	1.5	1		mg/kg	Di-n-Octyl Pht	nalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	4		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	. 1		mg/kg	Benzo (a) Pyre	Control of the Contro	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-		ND	0.40	1		mg/kg
Acenaphthylene	NO	0.40	1		mg/kg	Dibenz (a,h) A		ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) F	A CONTRACTOR OF THE PARTY OF TH	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	22.122.131.117			71-17	-		3
Surrogates;	REC (%)	Control		Qua		Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	92	31-142				Phenol-d6		97	30-136			
Nitrobenzene-d5	86	28-139				2-Fluorobipher	lyl	86	33-144			
2,4,6-Tribromophenol	81	24-152				p-Terphenyl-d	•	87	23-160			



DF - Dilution Factor

Qual - Qualifiers

Lalscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

02/15/02 02-02-0740 EPA 3545

Method: EPA 8270C

Project: LAUSD East Valley M.S./53306

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ent Sample Number		Lab Sample Number		Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	h ID		
SB-38-1			02-	02-074	10-37	02/15/02	Solid	02/15/02	02/18/02	0	20215	4
arameter	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF	Qual	Units
I-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropher	lar	ND	2.5	1		mg/kg
niline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
henol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
lis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ine	ND	0.50	1		mg/kg
-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ene	ND	0.50	1		mg/kg
3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	ite	ND	0.50	1		mg/kg
,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chloropheny	-Phenyl Ether	ND	0.50	1		mg/kg
enzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
is(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe	the state of the s	ND	0.50	1.		mg/kg
I-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1		mg/kg
lexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny		ND	0.50	-1		mg/kg
litrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophi		ND	2.5	1		mg/kg
-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	-119)	ND	0.40	1		mg/kg
4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Senzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
is(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	- 1		mg/kg
4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	- 1		mg/kg
,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
laphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pi	hthalate	ND	0.50	1		mg/kg
lexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)		ND	0.50	1		mg/kg
-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	i) Fillialate	ND	0.40	1		mg/kg
lexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/kg
.4.5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/kg
-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/kg
-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Simethyl Phthalate	ND	0.50	1					ND	0.40	1		mg/kg
cenaphthylene	ND	0.40	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		
-Nitroaniline	ND	0.40			mg/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/kg
cenaphthene	ND	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1		mg/kg	Benzo (g,h,i) P	er yierie	ND	0.40	7		mg/kg
Surrogates:	REC (%)	Control Limits	,	Qual	mg/kg	Surrogates:		REC (%)	Control Limits		Qual	
-Fluorophenol	91	31-142				Phenol-d6		94	30-136			
litrobenzene-d5	85	28-139				2-Fluorobiphen	vi	87	33-144			
4,6-Tribromophenol	80	24-152				p-Terphenyl-d1		84	23-160			

RL - Reporting Limit

DF - Dilution Factor

Lalscience nvironmental aboratories, Inc.

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

02/15/02

Work Order No:

02-02-0740

Preparation: Method: EPA 3545 EPA 8270C

Project: LAUSD East Valley M.S./53306

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lient Sample Number		Lab Sample Number		Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	h ID		
SB-38-3			02-	02-074	10-38	02/15/02	Solid	02/15/02	02/18/02	0	20215	4
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophene	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
henol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluer	ne	ND	0.50	1		mg/kg
-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluer	ne	ND	0.50	1		mg/kg
,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalat	e	ND	0.50	1		mg/kg
,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-	Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	C. C. L.	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	NO	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	thylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodipher		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	4		mg/kg
fexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-		ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenz		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe	12400	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	1101	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phtha	alata	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	2.010	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	*		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Ph	thalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorober		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthr		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexy		ND	0.50	-		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	i) Filtitalate	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1			and the second s	alata	ND	0.50	1		
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg mg/kg	Di-n-Octyl Phtha Benzo (k) Fluor		ND	0.30	1		mg/kg mg/kg
2-Chloronaphthalene	ND	0.50	1			Benzo (b) Fluor		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50			mg/kg			ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Benzo (a) Pyrer		ND	0.40	1		mg/kg
The state of the s	100				mg/kg	Indeno (1,2,3-c,			0.40			
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) An		ND	0.40	1		mg/kg
3-Nitroaniline	ND ND	0.50	1		mg/kg	Benzo (g,h,i) Pe	гујепе	ND	0.40	1		mg/kg
Acenaphthene Surrogates:	REC (%)	0.40 Control	1	Qua	mg/kg !	Surrogates:		REC (%)	Control		Qual	
2 Elyspechanis	24	Limits				DE		00	Limits			
2-Fluorophenol	94	31-142				Phenol-d6	4	98	30-136			
Nitrobenzene-d5	85	28-139				2-Fluorobipheny		86	33-144			
2,4,6-Tribromophenol	83	24-152				p-Terphenyl-d14	4	89	23-160			

RL - Reporting Limit

DF - Dilution Factor .

Qual - Qualifiers

Lalscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

Work Order No:

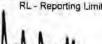
02/15/02 02-02-0740

Preparation: Method: EPA 3545 EPA 8270C

Project: LAUSD East Valley M.S./53306

Page 15 of 17

ient Sample Number		Lab Sample Number		Collected Matrix Pr	Date Prepared	Date Analyzed	Q	C Bato	h ID			
S8-38-5			02-	02-074	0-39	02/15/02	Solid	02/15/02	02/18/02	0	20215	4
Parameter	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	oi	ND	2.5	1		mg/kg
Anlline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	4		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluer	ne	ND	0.50	1		mg/kg
Z-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluer	ne	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalat		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	thylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodipher	The second secon	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop	ST SECULIA	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-	Street Contract of the Contrac	ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenz		ND	0.50	1		
Isophorone	ND	0,50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	HOL	ND	0.40	1		
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		-		data			1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Di-n-Butyl Phtha	arate	ND	0.50			mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
1.2.4-Trichlorobenzene	ND	0.50			mg/kg	Benzidine		ND	10	1		mg/kg
Naphthalene	ND		1		mg/kg	Pyrene		ND	0.40	1		mg/kg
		0,40	1		mg/kg	Pyridine	we construct	ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Ph		ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorober	Contraction (Sec.)	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthr		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexy) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0,40	1		mg/kg	Chrysene	2.00	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Qctyl Phtha		ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluora		ND	0.40	1		mg/kg
2-Chloronaphthalene	NO	0.50	1		mg/kg	Benzo (b) Fluori		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrer		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,	d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) An	thracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Pe	rylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg							
Surrogates:	REC (%)	Control		Qual		Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	53	31-142				Phenol-d6		91	30-136			
Nitrobenzene-d5	90	28-139				2-Fluorobipheny	4	132	33-144			
2,4,6-Tribromophenol	7	24-152		2		p-Terphenyl-d14		91	23-160			



DF - Dilution Factor

Calscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

02/15/02

Work Order No:

02-02-0740

Preparation:

EPA 3545

Method:

EPA 8270C

Project: LAUSD East Valley M.S./53306

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ient Sample Number		Lab Sample Number		Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID		
SB-38-7			02-	02-0740	0-40	02/15/02	Solid	02/15/02	02/18/02	0	20215	4
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1	n	ng/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1	n	ng/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		ng/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1	n	ng/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
-Chlorophenol	ND	0.50	1		ng/kg	2,6-Dinitrotolue	ne	ND	0.50	1		mg/kg
,3-Dichlorobenzene	ND	0.50	1	n	ng/kg	Diethyl Phthala	te	ND	0.50	1		mg/kg
.4-Dichlorobenzene	ND	0.50	1		ng/kg	4-Chlorophenyl		ND	0.50	1		mg/kg
enzyl Alcohol	ND	0.50	1	n	ng/kg	Fluorene		ND	0.40	1		mg/kg
,2-Dichlorobenzene	ND	0.50	1		ng/kg	4-Nitroaniline		ND	0.50	1		mg/kg
-Methylphenol	ND	0.50	1		ng/kg	Azobenzene		ND.	0,50	1		mg/kg
lis(2-Chloroisopropyl) Ether	ND	0.50	1		ng/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
/4-Methylphenol	ND	0.50	- 1		ng/kg	N-Nitrosodiphe	THE PERSON OF TH	ND	0.50	4		mg/kg
I-Nitroso-di-n-propylamine	ND	0.50	1		ng/kg	2,4,6-Trichlorop	A STATE OF THE STA	ND	0.50	1		mg/kg
lexachioroethane	ND	0.50	1		ng/kg	4-Bromophenyl		ND	0.50	1		mg/kg
litrobenzene	ND	2.5	1		ng/kg	Hexachloroben	and the second s	ND	0.50	1		mg/kg
sophorone	ND	0.50	1		ng/kg	Pentachlorophe	7.8.20	ND	2.5	1		mg/kg
-Nitrophenol	ND	0.50	1		ng/kg	Phenanthrene	31101	ND	0.40	1		1000
4-Dimethylphenol	ND	0.50	1		ng/kg	Anthracene		ND	0.40	1		mg/kg
enzoic Acid	ND	2.5	1		ng/kg	Di-n-Butyl Phth	alata	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		ng/kg	Fluoranthene	aiate		0.50	1		mg/kg
4-Dichlorophenol	ND	0.50	1		-	Benzidine		ND	10000			mg/kg
,2,4-Trichlorobenzene	ND	0.50	1		ng/kg	Charles Service		ND	10	1		mg/kg
laphthalene	ND	0.40	1		ng/kg	Pyrene		ND	0.40	1		mg/kg
I-Chloroaniline	ND		1		ng/kg	Pyridine		ND	0.50	1		mg/kg
lexachloro-1,3-Butadiene	ND	0.50	1		ng/kg	Butyl Benzyl Ph		ND	0.50	1		mg/kg
		0.50	1		ng/kg	3,3'-Dichlorobe	The state of the s	ND	0.50	1		mg/kg
-Chloro-3-Methylphenol	ND	0.50	1		ng/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
-Methylnaphthalene	ND	0.40	7		ng/kg	Bis(2-Ethylhex)	(I) Phthalate	ND	0.50	1		mg/kg
-Methylnaphthalene	ND	0.40	1		ng/kg	Chrysene	OVER	ND	0.40	1		mg/kg
lexachlorocyclopentadiene	ND	1.5	1		ng/kg	Di-n-Octyl Phth		ND	0.50	1		mg/kg
.4,5-Trichlorophenol	ND	0.50	1		ng/kg	Benzo (k) Fluor		ND	0.40	1		mg/kg
-Chloronaphthalene	ND	0.50	1		ng/kg	Benzo (b) Fluor		ND	0.40	1		mg/kg
-Nitroaniline	ND	0.50	1		ng/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
imethyl Phthalate	ND	0.50	1		ng/kg	Indeno (1,2,3-c	record and a second second	ND	0.40	1		mg/kg
cenaphthylene	ND	0.40	1		ng/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/kg
I-Nitroaniline	ND	0.50	1		ng/kg	Benzo (g,h,i) P	erylene	ND	0.40	1		mg/kg
cenaphthene	ND	0.40	1		ng/kg							
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control		Qual	
2-Fiuorophenol	95	31-142				Phenol-d6		98	30-136			
Nitrobenzene-d5	87	28-139				2-Fluorobiphen	yt:	88	33-144			
2,4,6-Tribromophenol	84	24-152				p-Terphenyl-d1		90	23-160			

RL - Reporting Limit

DF - Dilution Factor ,

Lalscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

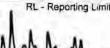
Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 02/15/02 02-02-0740 EPA 3545

EPA 8270C

Project: LAUSD East Valley M.S./53306

Page 17 of 17

N-Nitrosodimethylamine Aniline Phenol Bis(2-Chloroethyl) Ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl Alcohol 1,2-Dichlorobenzene 2-Methylphenol Bis(2-Chloroisopropyl) Ether 3/4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene	Result ND	RL 0.50 0.50 0.50 2.5 0.50 0.50	099 DF 1	Qual Units mg/kg mg/kg mg/kg mg/kg mg/kg	N/A Parameter 2,4-Dinitropheno 4-Nitrophenol Dibenzofuran	Solid	Result ND ND	02/15/02 RL 2.5 0.50	02021 DF Qua	ul <u>Units</u>
N-Nitrosodimethylamine Aniline Phenol Bis(2-Chloroethyl) Ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl Alcohol 1,2-Dichlorobenzene 2-Methylphenol Bis(2-Chloroisopropyl) Ether 3/4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene		0.50 0.50 0.50 2.5 0.50 0.50	1 1 1	mg/kg mg/kg mg/kg mg/kg	2,4-Dinitropheno 4-Nitrophenol Dibenzofuran	ſ	ND	2.5	DF Qua	
Aniline Phenol Bis(2-Chloroethyl) Ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl Alcohol 1,2-Dichlorobenzene 2-Methylphenol Bis(2-Chloroisopropyl) Ether 3/4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene	20 20 20 20 20 20 20 20 20 20 20 20	0.50 0,50 2.5 0.50 0.50 0.50	1 1	mg/kg mg/kg mg/kg	4-Nitrophenol Dibenzofuran	ı		100	4	
Aniline Phenol Bis(2-Chloroethyl) Ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl Alcohol 1,2-Dichlorobenzene 2-Methylphenol Bis(2-Chloroisopropyl) Ether 3/4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene	20 20 20 20 20 20 20 20 20 20 20 20	0,50 2.5 0.50 0.50 0.50	1	mg/kg mg/kg mg/kg	4-Nitrophenol Dibenzofuran			100		mg/kg
Phenol Bis(2-Chloroethyl) Ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl Alcohol 1,2-Dichlorobenzene 2-Methylphenol Bis(2-Chloroisopropyl) Ether 3/4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene	20 20 20 20 20 20 20 20	2.5 0.50 0.50 0.50	1	mg/kg mg/kg	Dibenzofuran			0.50	1	mg/kg
2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl Alcohol 1,2-Dichlorobenzene 2-Methylphenol Bis(2-Chloroisopropyl) Ether 3/4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene	ND ND ND ND ND	0.50 0.50 0.50	1	mg/kg	2 4 Distructs		NO	0.50	1	mg/kg
2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl Alcohol 1,2-Dichlorobenzene 2-Methylphenol Bis(2-Chloroisopropyl) Ether 3/4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene	ND ND ND ND	0.50 0.50			2.4-Dinitrotoluen	e	ND	0.50	1	mg/kg
1,4-Dichlorobenzene Benzyl Alcohol 1,2-Dichlorobenzene 2-Methylphenol Bis(2-Chloroisopropyl) Ether 3/4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene	ND ND ND	0.50	1	mg/kg	2,6-Dinitrotoluen	е	ND	0.50	1	mg/kg
Benzyl Alcohol 1,2-Dichlorobenzene 2-Methylphenol Bis(2-Chloroisopropyl) Ether 3/4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene	ND ND	in the contract	- 4	mg/kg	Diethyl Phthalats		ND	0.50	1	mg/kg
1,2-Dichlorobenzene 2-Methylphenol Bis(2-Chloroisopropyl) Ether 3/4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene	ND		1	mg/kg	4-Chlorophenyl-I		ND	0.50	1	mg/kg
1,2-Dichlorobenzene 2-Methylphenol Bis(2-Chloroisopropyl) Ether 3/4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene		0.50	1	mg/kg	Fluorene	ACC 1 4, 10 31/2 - C	ND	0.40	1	mg/kg
Bis(2-Chloroisopropyl) Ether 3/4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene	ND	0.50	1	mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
Bis(2-Chloroisopropyl) Ether 3/4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene		0.50	1	mg/kg	Azobenzene		ND	0.50	1	mg/kg
3/4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene	ND	0.50	1	mg/kg	4,6-Dinitro-2-Met	hylphenol	ND	2.5	1	mg/kg
N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene	ND	0.50	1	mg/kg	N-Nitrosodiphen		ND	0.50	1	mg/kg
Hexachloroethane Nitrobenzene	ND	0.50	1	mg/kg	2,4,6-Trichloroph		ND	0.50	1	mg/kg
Vitrobenzene	ND	0.50	1	mg/kg	4-Bromophenyl-I		ND	0.50	1	mg/kg
DELL'ALENCE METORICA	ND	2.5	1	mg/kg	Hexachlorobenza		ND	0.50	1	mg/kg
	ND	0.50	1	mg/kg	Pentachloropher		ND	2.5	1	mg/kg
A Real Co. Co.	ND	0.50	1	mg/kg	Phenanthrene		ND	0.40	1	mg/kg
T. C. STY C. STY COLDY T.Z. S.	ND	0.50	1	mg/kg	Anthracene		ND	0.40	1	mg/kg
	ND	2.5	1	mg/kg	Di-n-Butyl Phtha	late	ND	0.50	1	mg/kg
	ND	0.50	1	mg/kg	Fluoranthene	, Dic	ND	0.40	4	mg/kg
	ND	0.50	1	mg/kg	Benzidine		ND	10	1	mg/kg
	ND	0.50	1	mg/kg	Pyrene		ND	0.40	1	mg/kg
	ND	0.40	1	mg/kg	Pyridine		ND	0.50	1	mg/kg
Ann Control of the Co	ND	0.50	1	mg/kg	Butyl Benzyl Pht	halate	ND	0.50	1	mg/kg
	ND	0.50	1	mg/kg	3,3'-Dichlorobeni		ND	0.50	1	mg/kg
	ND	0.50	1	mg/kg	Benzo (a) Anthra		ND	0.40	1	mg/kg
	ND	0.40	1	mg/kg	Bis(2-Ethylhexyl)		ND	0.50	1	mg/kg
	ND	0.40	1	mg/kg	Chrysene	rimialate	ND	0.40	1	mg/kg
	ND	1.5	1	mg/kg	Di-n-Octyl Phtha	lata	ND	0.50	1	mg/kg
	ND	0.50	1	mg/kg	Benzo (k) Fluora		ND	0.40	1	mg/kg
	ND	0.50	1	mg/kg	Benzo (b) Fluora		ND	0.40	1	mg/kg
	ND	0.50	1	mg/kg	Benzo (a) Pyreni		ND	0.40	1	mg/kg
TO THE THE STATE OF THE STATE O	ND	0.50	1	mg/kg				0.40	1	
	ND		1		Indeno (1,2,3-c,c	A COLUMN TO SERVICE STATE OF THE SERVICE STATE OF T	ND	124,17		mg/kg
The state of the s	ND	0.40		mg/kg	Dibenz (a,h) Ant		ND	0.40	1	mg/kg
	ND	0.50	1	mg/kg	Benzo (g,h,i) Per	ylene	ND	0.40	1	mg/kg
	REC (%)	O.40 Control	1	mg/kg <u>Qual</u>	Surrogates:		REC (%)	Cantrol	Qua	1
2-Fluorophenol	75	Limits			Phenol-d6		co	Limits		
	107	31-142			- The second second		60 81	30-136 33-144		
1 40 to 2 C / 20 to 2 C / 2 C	82	28-139 24-152			2-Fluorobiphenyl		N.T			



DF - Dilution Factor



Quality Control - Spike/Spike Duplicate

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:
Work Order No:
Preparation:
Method:

02/15/02 02-02-0740 EPA 3545 EPA 8270C

Project: LAUSD East Valley M.S./53306

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
SB-36-3	Solid	GC/MS P	02/15/02		02/18/02	0202074032
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	98	96	53-118	3	0-19	
2-Chlorophenol	96	94	60-119	3	0-18	
1,4-Dichlorobenzene	94	92	56-131	2	0-18	
N-Nitroso-di-n-propylamine	102	98	64-123	3	0-18	
1,2,4-Trichlorobenzene	84	85	52-144	1	0-17	
4-Chloro-3-Methylphenol	98	97	45-135	1	0-20	
Acenaphthene	102	104	45-152	1	0-18	
4-Nitrophenol	105	100	45-135	5	0-20	
2,4-Dinitrotoluene	110	111	42-128	1	0-23	
Pentachlorophenol	91	87	45-135	5	0-20	
Pyrene	94	96	45-135	1	0-20	

Lalscience nvironmental aboratories, Inc.

Quality Control - Laboratory Control Sample

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method:

02/15/02 02-02-0740 EPA 3545 EPA 8270C

Project: LAUSD East Valley M.S./53306

Quality Control Sample ID Matrix		Instrument	Date Analyzed	Lab File ID	LC	S Batch Number
099-04-010-1,194	Solid	GC/MS P	02/15/02	15FEB004		0202154
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Phenol		10	9.0	90	67-118	
2-Chlorophenol		10	9.2	92	72-119	
1,4-Dichlorobenzene		10	8.9	89	69-118	
N-Nitroso-di-n-propylamine		10	10	103	70-112	
1,2,4-Trichlorobenzene		10	8.3	83	65-135	
4-Chioro-3-Methylphenol		10	9.8	98	45-135	
Acenaphthene		10	11	109	61-142	
4-Nitrophenol		10	9.8	98	45-135	
2,4-Dinitrotoluene		10	11	114	47-137	
Pentachlorophenol		10	9.2	92	45-135	
Pyrene		10	11	107	45-135	

Lalscience GLOSSARY OF TERMS AND QUALIFIERS nvironmental Laboratories, Inc.

Work Order Number: 02-02-0740

Qualifier	Definition
2	Surrogate spike compound was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
J	Analyte was detected at a concentration below the reporting limit. Reported value is estimated.
ND	Not detected at indicated reporting limit.

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ONE CALIFORNIA PLAZA, 37^{TI} FLOOR

300 SOUTH GRAND AVENUE. LOS ANGELES, CALIFORNIA 90071-3147

TELEPHONE: (213) 620-0460

FACSIMILE: (213) 624-4840

WWW.HFBLLP.COM

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DIRECT DIAL: (213) 621-0809 E-MAIL: DDENNIS@HFBLLP.COM

May 16, 2002

Theresa Kee Law Department Sears, Roebuck and Co. 3333 Beverly Road, A2-239B Hoffman Estates, IL 60179

Dear Theresa:

I am forwarding additional comments and revisions to the Preliminary Environmental Assessment the Los Angeles Unified School District is preparing for the condemnation of the Sears Auto Center in North Hollywood, California. The comments are pretty self-explanatory. The accompanying sheets are to replace those we have previous sent you and discussed with you. Please call me with any questions or technical questions can be addressed directly to Steve Williams for the District's environmental consultant at 562 951 2272.

Very truly yours,

DEAN E. DENNIS

OF

HILL, FARRER & BURRILL LLP

DED:lar cc. Gene Feilice w/o enclosures ::ODMA\MHODMA\HFB;428766;1

RESPONSE TO DTSC COMMENTS ON THE PRELIMINARY ENVIRONMENTAL ASSESSMENT

FOR THE

PROPOSED EAST VALLEY MIDDLE SCHOOL NO. 1 LAUREL CANYON BOULEVARD AND HAMLIN STREET LOS ANGELES, CALIFORNIA

Comments provided by the DTSC are provided in the left column and responses provided by Earth Tech and LAUSD are provided in the right column. Revised text and tables in the PEA report will be provided to the DTSC as replacement sheets.

Comment No.	Comment DTSC Project Manager Comments Ms. Jennifer Jones Glendale, California	Response
1.	Page 6-5; Section 6.2.5.1: "Only one VOC was detected, PCE at a maximum concentration of 1.5 micrograms per liter (Mg/L)" Correct the VOC concentration units from Mg/L to µg/L.	The edit will be made to the text.
2.	Page 6-10; Section 6.3.5.1: Revise the table header to include the words "Minimum" and "Maximum" above the appropriate columns indicating these concentrations.	The edit will be made to the text. In addition the words 'Number of' will be added to the header of the Detection column.
3.	Page 12-2; Section 12.0: "The total depth of the elevator piston was estimated to be approximately 25 feet bgs." This sentence is not consistent with the sentence on Page 4-1 that states "The elevator is equipped with a hydraulic cylinder, which extends approximately 15 feet below the bottom of the elevator or approximately 30 feet bgs." Reconcile this inconsistency.	Page 4-1 will be revised to reflect the approximate depth of 25 feet bgs.

	Comments Geological Services Unit Ms. Juli Oborne Glendale, California	
1.	Page 3-5; Section 3.2.2: The bulleted items summarize the information included in the EDR report. After identification of facilities included on environmental lists, the consultant makes a conclusion as to whether these facilities pose an environmental risk to the subject site. The consultant identifies five CORTESE sites within a one-mile radius of the site. However, there is no conclusion regarding the impact, if any, of these facilities on the subject site. Include a summary statement on the five CORTESE sites in the final PEA.	The text will be revised to reflect that the five CORTESE sites identified within a one-mile radius do not represent an environmental concern.
2,	If step-out sampling had not yet been completed at the location of SB-21, GSU would recommend analysis for lead in addition to SVOCs, since lead appears to be increasing with depth. If confirmation samples are required after excavation of the area of SB-21, lead analyses could be performed at that time.	Step out sampling has been conducted in the vicinity of SB-21. Lead was not analyzed. However, after removal of the impacted soil lead analysis will be performed as part of the confirmation-sampling program.
	Comments Human and Ecological Risk Division Bill Bosan, Ph.D. Staff Toxicologist Glendale, California	
I.	Page 7-1; Section 7.0: The second paragraph states that the majority of estimated site risk was due to semi-volatile organic compounds (SVOCs). This summary should more explicitly state that the estimated cancer risk was primarily attributable to polycyclic aromatic hydrocarbons (PAHs).	References to SVOCs in Page 7-1, Section 7.0 has been replaced with the term PAHs

References to Chronic Relative Exposure Levels have been replaced by Chronic Reference Exposure Levels in Section 7.3.2. REL's published in E), the mg/m³, DTSC's
standard
The derivation of soil physical parameters for use in the Johnson and Ettinger model have been added to Table 8. Values derived by Earth Tech are now very similar to those derived by HERD. Value differences can be attributed to rounding errors. However, the incremental cancer risks and health hazards estimated for PCE by HERD are essentially the same as the revised risk values calculated by Earth Tech using the soil physical parameters listed in Table 8.
GE VALUE
1.51 g Input parameters used in the Johnson and
0.4 Ettinger model are summarized in the revised
0.3 Table 14.
0.10 Health risks and hazards associated with indoor

porosity = $1-(\rho_b/\rho_s)$). I assume the measured water content refers to the eighth column of Table 8, Pore Fluid Saturations, % Pv, Water. This is the water volume under saturated conditions, which is not the water-filled porosity of the vadose zone under ambient conditions. Please revise this section and the Johnson and Ettinger Model outputs, accordingly. In addition, Appendix D presents physical property data that do not match the data summarized in Table 8. Please address these data differences.

Using the average physical parameters from the above table, the maximum reported PCE soil gas concentration (5,789 µg/m3), depth to contamination of 274.3 cm and an average soil temperature of 20.2°C, the indoor air risk and hazard for PCE were estimated to be 2.5E-06 and 2.8E-02, respectively. These values are slightly higher than the risk and hazard presented in Appendix E for the maximum reported PCE concentration (1,5E-06 and 1.7E-02, respectively). These values were estimated using the Model default soil type, LS. According to the Johnson and Ettinger Model User's Guide, the vadose zone soil vapor permeability can be estimated using the measured, saturated hydraulic conductivity. Using the average hydraulic conductivity from Table 8 (1.41E-04 cm/sec) and following the equations presented in the Johnson and Ettinger Model User's Guide. the soil vapor permeability was estimated to be 1.87E-09 cm². Incorporating this userdefined vapor permeability, together with the average, site-specific physical parameters, the estimated indoor air risk and hazard for PCE become 4.2E-07 and 4.7E-03, respectively. The HERD J&E Model outputs are included in Attachment 1. Please revise the J&E model outputs to incorporate average physical parameters and the userdefined vapor permeability. Given the low estimated indoor air risk for PCE, estimation of the 95% UCL soil gas concentrations is not really warranted and can be deleted from the human health screening evaluation.

health hazards are presented in revised Table 22. Revised health risks and hazards estimates for the multipathway exposures are presented in revised Table 25.

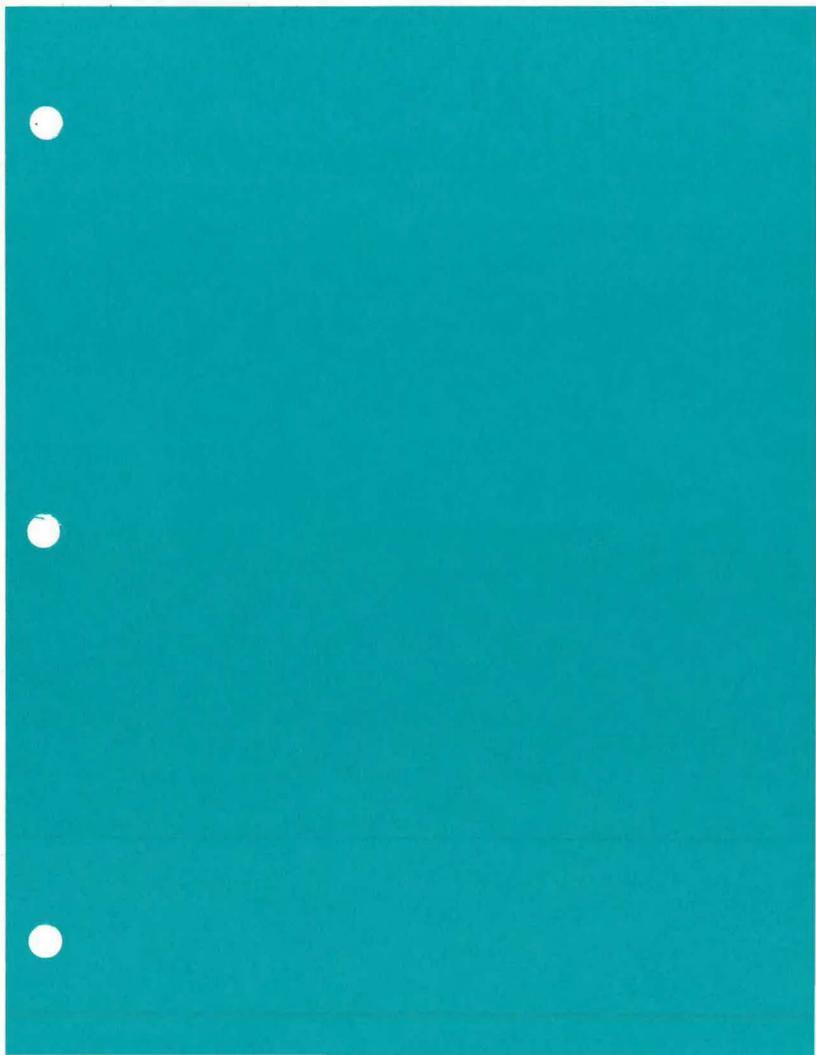
The discussion of health risks associated with the 95%UCL has been removed. Table 26 was also removed.

Page 7-8; Section 7.5;

Since 1) outdoor air risks for VOCs rarely, if ever, drive the cancer risk at a site; and 2) soil gas data was conservatively evaluated using the Johnson and Ettinger Indoor Air Risk Model, outdoor air emissions need not be estimated and this section can be deleted from the human health screening evaluation.

Earth Tech agrees that the discussion of VOCs in outdoor air could be removed without affecting the conclusions of the risk assessment. However, removing the outdoor air discussion would require a significant revision of the report and tables. Since the section is not considered to be a deficiency or deviation from guidance, Earth Tech left the section in place. If future revisions to the report are required, Earth Tech will remove the outdoor air discussion (and associated tables) at that time.

6,	Page 7-13; Section 7.6.5: This section should be revised to state that the site risk is primarily attributable to PAHs. Please see Specific Comment No.1.	References to SVOCs in Page 7-13, Section 7.6.5 have been replaced with the term PAHs.
7.	Page 13-2; Section 13.1.4: Please revise the conclusions, consistent with the above recommendations. HERD concurs with the recommendation of further action only for additional characterization of PAHs around SB-21-0.5.	Section 13.14 has been revised to accommodate revised health risk estimates. In addition, where appropriate, references to SVOCs have been replaced with the term PAHs in the conclusion and recommendations section.



LIST OF TABLES

Table	<u>Title</u>
17	Incremental Cancer Risk Estimated for Dust Particles in Air – Hypothetical On-Site Residential Receptors
18	Health Hazards Estimated for the Ingestion and Dermal Contact with Soil-Hypothetical On-Site Residential Receptors
19	Health Hazards Estimated for the Inhalation of Dust Particles in Air - Hypothetical On- Site Residential Receptors
20	Residential Cumulative Risk and Hazards
21	Incremental Cancer Risk Estimated for Exposure to Soil Gas VOCs in Indoor Air – Hypothetical On-Site Residential Receptors
22	Health Hazards Estimated for the Inhalation of Soil Gas VOCs in Outdoor Air – Hypothetical On-Site Residential Receptors
23	Incremental Cancer Risk Estimated for Exposure to Soil Gas VOCs in Outdoor Air – Hypothetical On-Site Residential Receptors
24	Health Hazards for Inhalation of Soil Gas VOCs in Outdoor Air - Hypothetical On-Site Residential Receptors
25	Summarized Total Site Cancer Risks and Health Hazards

A total of 30 chemicals were identified as COPCs in soil and soil gas at the site. These COPCs were evaluated in the human health screening evaluation.

Using maximum COPC concentrations detected at the site, a total incremental cancer risk for hypothetical residential exposure to soil through direct contact (including incidental ingestion, dermal contact and inhalation of dust particles) was estimated to be 8E-04. The chemicals that contributed to more than 99.9 percent of the estimated incremental cancer risk were the carcinogenic Polycyclic aromatic hydrocarbons (PAHs) detected in soil sample SB-21-0.5. The lateral extent of PAH impacted soil seems to be very limited as only one of 77 samples collected at the site contained detectable concentrations of PAHs.

The total hazard index for hypothetical residential exposure to soil through direct contact (including incidental ingestion, dermal contact and inhalation of dust particles) was estimated to be 2.7E-02. The estimated hazard index for the site is below 1.0, the benchmark level for non-cancer effects.

The total cancer risk and hazard index associated with exposure to VOC-impacted indoor air were calculated to be 4.2E-7 and 7.8E-03, respectively. The cancer risk is lower than the DTSC risk criterion of 1E-6. The total hazard index for this pathway is below the level of regulatory concern (i.e., 1.0).

The use of the maximum detected soil gas concentrations provides a conservative estimate of associated cancer risks and health hazards. Furthermore, assuming that a resident resides at the site 24 hours per day for 30 years also provides a conservative estimate of the chemical exposure.

For all analytes modeled, the risk due to inhalation of outdoor air was approximately three orders of magnitude smaller than the risk due to inhalation of indoor air. The hazard index due to inhalation of outdoor air was more than an order of magnitude smaller than the hazard index due to inhalation of indoor air. The estimated cancer risk due to inhalation of VOCs in outdoor air was 2.2E-9. This value is below the cancer risk criterion of 1E-6. The estimated total health hazard index due to inhalation of VOCs in outdoor air was 1.2E-3. This value is also below the level of concern of 1.0.

Cumulative potential risks from soil and soil-gas exposure were calculated by summing all pathways. The total cancer risk is 8E-4 at the proposed school site, which exceeds the acceptable criteria of 1E-6. If the PAHs data from SB-21-0.5 were removed, the total site cancer risk would be less than the cancer risk criterion of 1E-6. Note that the modeled risk is based on the maximum detected concentrations in soil and soil-gas samples rather than an estimate of the average concentrations and therefore provides a

conservative estimate of health risk. The cumulative site hazard index is 3.67E-02, which is below the target hazard index of 1.0.

Based on the concentrations of PAHs detected in soil sample SB-21-0.5, additional assessment to determine the distribution and occurrence of elevated SVOCs should be conducted in the form of a supplemental site investigation (SSI). Results of the SSI will be summarized in a SSI Report with recommendations for either remedial action or no further action. Based on the results of this PEA, no further action for the remainder of the site should be required.

- There are four CALSITES (HWS) facilities located within a one-mile radius of the proposed school site. The sites appear unlikely to negatively impact the proposed school site due to their distance (1/2 mile and greater).
- One LUST site was identified within ¼ mile north-northeast of the proposed school site. This
 site has been closed, no evidence reviewed, suggests it would negatively impact the proposed
 school site.
- There are 5 CORTESE sites identified within a one-mile radius of the proposed school site. The 5 CORTESE sites are not considered to represent an environmental concern for the subject property.
- There is one registered UST site southeast and adjacent to the proposed school site. This site is not included on any release or contamination related databases. This site is not considered to be a recognized environmental condition relative to the subject property.
- No oilfield activity was identified on or adjacent to the proposed school site (Munger Map Book, 1994, Page W-61).

3.3 HAZARDOUS SUBSTANCE/WASTE MANAGEMENT INFORMATION

The following current and/or historic hazardous materials or waste storage facilities were identified in the EDR Regulatory database report, records review, interviews, and/or site reconnaissance performed by Earth Tech (Earth Tech August 2001, December 2001):

- The Sears Auto Center stores new oil in two 200-gallon aboveground storage tanks (ASTs) inside the west building. There are two parts washers that are serviced by the Safety Kleen Company within the shop. Waste oil is stored in 55-gallon drums in the service bays. A 1,000-gallon AST located outside of the west building was formerly used to store waste oil, but is not currently in use. This AST is located within a secondary containment. Used automobile batteries are stored in the service bays and taken off-site by Johnson Controls.
- Nine UST vent pipes were observed on the roof of the Sears Auto Center. A permit was issued in 1951 to Sears, Roebuck and Company for installation of nine USTs at 12137

 Hamlin Street. The permit for the USTs was as follows: one 4,000-gallon UST for storage of gasoline, one 8,000-gallon UST for storage of gasoline, six 1,000-gallon USTs for storage of fresh lube oil, and one 1,000-gallon UST for storage of waste oil. In 1971, a permit was issued to Sears Auto Center to abandon one atmospheric tank. The permit did not specify the tank contents, size, or location. In 1988, a permit from the City of Los Angeles Fire Department was issued to Sears Auto Center to abandon seven atmospheric tanks.

 Documentation accompanying this permit indicates that the seven 1,000-gallon USTs were removed. A note on the site plan attached to the permit indicates that a soil sample was to be taken under the waste oil UST. No documentation of this soil sample was found in the records. Sears Auto Center is also listed as having seven USTs. The USTs listed include one 500-gallon UST for waste oil and six USTs of unspecified size containing unspecified product. The Sears Auto Center is also included on the CA FID UST list, which shows the

facility as an inactive UST location. The former USTs at the Sears Auto Center are considered to be a potentials environmental condition.

- Hazardous materials in the strip shopping center tenant spaces were limited to small quantities of janitorial supplies and latex paint.
- The only hazardous wastes currently generated at the property are waste oil, batteries, and waste brake cleaning fluid from the Sears Auto Center. The auto center has only recently resumed performing oil changes and has not yet made arrangements for disposal of the waste oil. The site does not currently generate infectious waste.
- Waste Management removes refuse generated at the site for all the commercial waste.
- The LADWP services the proposed school site for electricity and water, and the Southern California Gas Company for natural gas. One pole-mounted electrical transformer was observed near the southeast corner of the residential area northwest of the subject property. Two transformer vaults were observed on the subject property; one located in the alley, west of the strip shopping center and one located in Hamlin Street, south of the southeast corner of the auto center. All of these transformers are owned by LADWP. No staining or signs of leakage were noted in association with the transformers located on the subject property.
- Photo City (former business) at 6525 Laurel Canyon Boulevard is listed as a small-quantity generator with no violations found in the record. Photo City is listed for the generation of photo-chemicals and photo-processing waste. This facility is no longer a tenant at the subject property. Sears store, at 12121 Victory Boulevard south of the property was also listed as a small-quantity generator with no violations found. The listing on the RCRIS database does not represent a recognized environmental condition to the proposed school site.
- Avenue Plus, a clothing store, at 6543 Laurel Canyon Boulevard is listed for the generation of asbestos-containing waste. The Valley Plaza Shopping Center is listed for the generation of asbestos-containing waste. Sears Auto Center is listed for the generation of alkaline solution without metals; off-specification, aged, or surplus organics; asbestos-containing waste; waste oil and mixed oil; laboratory waste chemicals; unspecified solvent mixture waste; and aqueous solution with less than 10% total organic residues. The listing on the HAZNET database does not represent a recognized environmental condition to the proposed school site.
- The FINDS database is a pointer database, which refers back to the Photo City and Sears Auto Center listings on the RCRIS-SQG database. The FINDS database listing does not represent a recognized environmental condition to the proposed school site.

3.3.1 PREVIOUS INVESTIGATIONS

In addition to the Phase I conducted by Earth Tech, a preliminary Phase I Environmental Site Assessment was conducted for the entire Valley Plaza Shopping Center, which includes the subject property, by California Environmental for J.H. Snyder Company, LLC and is dated July 2000. This assessment noted the existing buildings and a one-story vacant commercial structure located at the northwest corner of

Hamlin Street and Bellingham Avenue. This structure was reported to be a former Sears Garden Center/Customer Pick-up facility (note: this building was no longer present during Earth Tech's site reconnaissance on August 8, 2001). The report states that the Sears Auto Center utilizes and generates small quantities of waste oil, solvents, automobile batteries, and other miscellaneous automotive materials. The J.H. Snyder report indicates that nine soil borings were drilled at the Sears Auto Center in 1994. Soil samples collected were found to have concentrations of perchloroethylene also referred to as tetrachloroethene (PCE) up to 19 parts per billion (ppb). The report does not indicate where the soil borings were located, depth of the samples collected, or if the soil samples were analyzed for other compounds.

4.0 APPARENT PROBLEM

Based on the background information reviewed and the observations noted during the site visits, several potential environmental concerns (PECs) were identified. Similar PECs are grouped together as listed below.

- A portion of the proposed school site has been developed with an automobile service center since the early 1950's. Nine USTs were installed at this site in 1951. There is documentation that at least eight of the nine USTs were removed from the subject property by 1988. No documentation concerning the removal or abandonment of the tanks was found; therefore, the possible existence of USTs in the former UST area and residual hydrocarbons beneath the former USTs is a PEC.
- The automobile service center currently has four clarifiers, which receive water from several areas within the facility before discharging to the sanitary sewer. The potential for the clarifiers to have an unauthorized release is a PEC.
- The automobile service center currently has 17 underground hydraulic lifts. In addition, indications are present that at least six additional hydraulic lifts have been abandoned on the site. The potential for the hydraulic cylinders to leak in the subsurface exists.
- One two-story elevator exists at the automobile service center. The elevator is equipped with a hydraulic cylinder, which extends approximately 15 feet below the bottom of the elevator or approximately 25 feet bgs.
- Staining was observed on the concrete floor adjacent to the downstairs air compressors floor drain.
- A former petroleum pipeline was identified beneath Laurel Canyon Boulevard.
- A storm drain inlet is located in the central parking lot.
- A transformer is present north of the Sears Auto Center.
- Existing waste oil ASTs at the Sears Auto Center.
- A former Sears Garden Center was located on the northwest corner of Hamlin Street and Bellingham Avenue.
- Sampling performed as part of a Preliminary Phase I investigation indicated perchloroethylene (PCE) in soil at the Sears Auto Center (J.H. Snyder, 2000). The report does not indicate where the soil borings were located at Sears Auto Center, depth of the samples collected, or if the soil samples were analyzed for other compounds. Therefore, the potential for soil impacted with PCE exists within the subject property area.

6.2.5 SOIL GAS ANALYTICAL RESULTS

The following sections summarize the results of the soil gas testing program. A summary of the analytical results of the soil gas samples is included in Tables 1 and 2. The laboratory reports and chain-of-custody documentation are included in Appendix D.

The following tables within this section present only those compounds detected by their respective analysis. If other compounds exist within a particular analyte list and were not listed in the table, then they were not detected.

6.2.5.1 VOC Analysis Using EPA Method 8260B

Only one VOC was detected, PCE at a maximum concentration of 1.5 micrograms per liter ($\mu g/L$), in the 48 soil gas samples (including duplicates and purge volume tests) analyzed in the mobile laboratory using EPA Method 8260B.

6.2.5.2 VOC Analysis Using EPA Method TO-14A

Eight soil gas samples were collected in Summa canisters for analysis at a fixed-base laboratory. VOCs were detected in all eight samples analyzed by EPA Method TO-14A. For consistency with the mobile laboratory analysis results, the EPA Method TO-14A results [(ppbv/v)] were converted to units of μg/L. The following table summarizes the minimum and maximum concentrations of detected VOCs. No other VOCs were detected.

VOCs	Number of Detections	Minimum Concentration (µg/L)	Maximum Concentration (μg/L)
Dichlorodifluoromethane	7	0.0046	0.0754
Trichlorofluoromethane	4	0.0039	0.1713
1,1,1-Trichloroethane	5	0.0049	0.0078
Benzene	4	0.0023	0.0062
Toluene	8	0.0146	0.0996
Trichloroethene	2	0.0076	0.0207
Tetrachloroethene	8	0.0296	5.7896
Ethylbenzene	8	0.0119	0.2957
p/m-Xylene	8	0.0662	1.1473
Styrene	1	0.0042	0.0042
o-Xylene	8	0.0278	0.4854
1,3,5-Trimethylbenzene	7	0.0055	0.1399
1,2,4-Trimethylbenzene	8	0.0130	1.8485

6.3.5.1 Metals

A total of 82 soil samples (including duplicates) were analyzed for metals using EPA Methods 6010B and 7471A. Each of the Title 22 metals was detected in soil at the site. The following table identifies the range of concentrations found in the soil samples collected.

Metals	Number of Detections	Minimum Concentration (mg/kg)	Maximum Concentration (mg/kg)
Antimony	25	0.207J	1.56
Arsenic	33	0.133J	1.75
Barium	78	30.9	315
Beryllium	78	0.0619J	0.583
Cadmium	77	0.0191J	0.941
Chromium (Total)	78	2,13	45.6
Cobalt	78	2,12	14
Copper	78	2.72	51.4
Lead	78	0.828	39.3
Mercury	68	0.0130J	0.245
Molybdenum	50	0.02091	1.58
Nickel	78	2.07	17.9
Selenium	12	0.229J	1.64
Silver	3	0.0305J	0.1111
Thallium	0	**	
Vanadium	78	6.6	64.6
Zinc	78	10.8	202

Background soil samples were not collected at the site. Analytical results from soil samples collected at nearby Francis Polytechnic High School (approximately 2 miles north of the site), were used as background soil sample data for metals. Table 10 presents the background metals results.

6.3.5.2 SVOCs by EPA Method 8270C

A total of 79 soil samples were analyzed for SVOCs. Of this data set twelve separate SVOCs were detected in one sample. Sample SB-21-0.5 was reanalyzed to confirm the concentration (SB-21-0.5R) and then a composite sample (SB-21-0.5H) was prepared from sample SB-21-0.5 and analyzed again. All three samples had detectable concentrations of SVOCs. The specific compounds and range of concentrations detected are as follows:

SVOCs	Number of Detections	Minimum Concentration (Mg/Kg)	Maximum Concentration (Mg/Kg)
Phenanthrene	3	0.42	1.6
Anthracene	3	0.13J	0.54
Fluoranthene	3	3.3	14
Pyrene	3	3.4	14
27112		6-10	

7.0 HUMAN HEALTH SCREENING EVALUATION

A health risk screening was conducted in accordance with the PEA Guidance Manual (DTSC, 1994 second printing 1999) procedures for human health evaluation. As stated by the DTSC, the goal of the screening process is to provide risk managers with an estimate of the potential chronic health hazards that could arise due to exposure to chemicals at the site. Because of the simplified nature of the exposure assumptions incorporated into the PEA procedure, the results are not absolute estimates of the risks or hazards at a site, but rather are health-conservative estimates. As a result, the PEA procedure tends to overestimate potential health hazards and cancer risks rather than underestimate them. Consequently, if the PEA results suggest that cancer risks and non-carcinogenic health hazards are below levels of concern, no further risk assessment or investigation is generally warranted. The following sections discuss the potential risks to humans via exposure to chemicals of potential concern (COPCs) in site soil and air at the proposed East Valley Middle School No. 1. The results of the human health screening evaluation are presented in Tables 11 through 26.

The results of this health risk assessment estimated a site cancer risk of 8.0E-4 and a site hazard index of 6.8E-2. The site hazard index is below the commonly used hazard index limit of 1.0. The estimated risk of 8.0E-4 was due solely to the concentrations of polycyclic aromatic hydrocarbons (PAHs) that were found in one soil boring (SB-21). Assuming that exposure to the PAHs in the area confined to SB-21 can be mitigated such that the cancer risk is negligible, the resultant site cancer risk would result entirely from the potential inhalation of volatile organic compounds (VOCs) in indoor air. This resultant site cancer risk is 9.5E-07. This risk value is lower than the DTSC's acceptable cancer risk level of 1E-6.

7.1 EXPOSURE PATHWAYS AND MEDIA OF CONCERN

The PEA investigation analytical results collected by Earth Tech indicated that the COPCs and media of concern are SVOCs and pesticides in soil, and organic compounds in soil vapor. As indicated in the conceptual site model (Figure 5), the primary sources for the COPCs have not been positively identified, but former underground storage tanks (USTs) and possibly waste oil clarifiers used on-site could potentially be a source of VOCs in soil vapor. As discussed in Section 5.0, potential exposure routes include ingestion, inhalation, and dermal contact.

As discussed in Section 5, the groundwater pathway was judged to be incomplete, and therefore not evaluated as a potential exposure pathway.

7.1.1 POTENTIAL EXPOSURE RECEPTOR POPULATIONS

Because the PEA is a conservative assessment of potential exposure and risks, residents are evaluated, as the receptor population of concern. Risk values incorporate exposure factors for both adults and child populations. This population is assumed to be living on the site 24 hours a day for 24 years as adults and 24 hours a day for 6 years as children.

At the proposed school site, the actual receptor populations are students on-site during the school day, and teachers and other support staff at the school. These populations are anticipated to be at the school for a much shorter frequency and duration of exposure thereby limiting the amount of time exposed to site contaminants.

7.2 CHEMICALS OF POTENTIAL CONCERN AND EXPOSURE POINT CONCENTRATIONS

The methodologies used by Earth Tech to determine the COPCs are described in the following sections.

7.2.1 CHEMICALS OF POTENTIAL CONCERN FOR SOIL PATHWAYS

Earth Tech identified two soil exposure pathways that could affect residential receptors at the proposed school site: dermal contact and oral ingestion. Organic compound COPCs were identified as any organic chemicals detected at least once in soil samples. For health risk screening purposes, maximum concentrations for each chemical were selected from soil samples collected in the depth interval from ground surface to 10 feet (depths at which contact could occur). Soil sample analytical results are summarized in Appendix D. Based on the above selection criteria, a total of 17 chemicals were identified – three pesticide residues and 14 SVOCs.

Background soil samples for metals analysis were not collected at the site. Instead, metal concentrations reported in site soils were compared to background soil metals data from the Francis Polytechnical School site. This school site is located approximately 2 miles north of the site. Soils at the Francis Polytechnical School site are similar to soils at the proposed East Valley School No. 1 site for the following reasons:

- Both sites have shallow soils deposited from the Tujunga Wash alluvial fan/flood plain.
- The source of the alluvial material is the same.
- Both sites are within similar residential and commercial settings.

Therefore, metals data from the Francis Polytechnical School site are considered to be representative of background conditions within the area occupied by the proposed East Valley School No.1 site.

Earth Tech performed an evaluation of background metals in soil in accordance with the PEA Guidance Manual (DTSC, 1994 second printing 1999). Table 11 presents the maximum, and average background concentrations; and the maximum, average, and 95 percent upper confidence limit on the arithmetic mean (95% UCL) concentrations for samples collected from the proposed school site. Measured metal concentrations in soil samples from the proposed school site were considered to be within background levels if either the maximum or the average detected on-site concentrations were less than the maximum background soil concentration. Using the data provided in Table 11, all metal concentrations detected at the site were deemed to be within background concentrations. Therefore no metal COPCs were identified.

In accordance with the PEA Guidance Manual (DTSC, 1994 second printing 1999), lead should be evaluated in a PEA regardless of whether its concentrations are within background levels. However, the maximum lead concentration detected at the site (39.3 mg/kg) is significantly lower than the DTSC soil lead screening value of 255 mg/kg. Therefore, health risks posed by lead in soil at the site were not evaluated using the LeadSpread model as part of this PEA.

7.2.2 CHEMICALS OF POTENTIAL CONCERN FOR THE AIR PATHWAY

Cancer risks and non-carcinogenic health hazards for the inhalation pathway are based on either exposure to volatile emissions for VOCs or exposure to fugitive dust emissions for SVOCs and pesticides. As discussed for the soil pathway in Section 7.2.1, the COPCs selected to assess the inhalation of fugitive dust emissions were all of the SVOCs and pesticides detected at the site. In accordance with the PEA Guidance Manual (DTSC, 1994 second printing 1999), calculation of risk/hazard using either volatilization or fugitive dust adequately describes exposure to any given chemical; it is not necessary to do both. For the assessment of VOCs in breathing air, all 13 organic chemicals detected in soil-gas samples were modeled as COPCs transported from the subsurface into indoor air. The maximum detected soil gas concentrations were used as the exposure point concentrations. Maximum detected soil gas concentrations are summarized in Table 15. A complete summary of soil gas analytical results is presented in Appendix D.

7.3 TOXICITY VALUES

The toxicity assessment characterizes the relationship between the magnitude of exposure to a COPC and the nature and magnitude of adverse health effects that may result from such exposure. For purposes of calculating exposure criteria to be used in risk assessments, adverse health effects are classified into two broad categories — non-carcinogens and carcinogens. Toxicity values/exposure criteria are generally developed based on the threshold approach for non-carcinogenic effects and the non-threshold approach for carcinogenic effects. Toxicity values may be based on epidemiological studies, short-term human studies, subchronic or chronic animal data.

In this assessment, chronic toxicity criteria were selected (in order of preference) from the following sources: (1) Cal/EPA Cancer Potency Factors and Chronic Reference Exposure Levels, (2) U.S. EPA's Integrated Risk Information System (IRIS) and U.S. EPA Health Effects Assessment Summary Tables (HEAST), as referenced in the U.S. EPA Region IX Preliminary Remedial Goals table.

7.3.1 CARCINOGENIC EFFECTS

Certain chemicals are regulated as carcinogens based on the likelihood that exposure may cause cancer in humans. Numerical estimates of cancer potency for these chemicals are presented as cancer slope factors (CSFs). The CSF defines the cancer risk due to constant lifetime exposure to one unit of a carcinogen (units of risk per mg/kg-day). CSFs are derived by calculating the 95%UCL on the slope of the linearized portion of the dose-response curve using the multistage cancer model on the study data. Use of the 95%UCL of the slope means that there is only a 5% chance that the probability of a response could be greater than the estimated value for the experimental data used. This is a conservative approach and may overestimate the actual risk given that the actual risk is expected to be between zero and the calculated value. Carcinogenic slope factors assume no threshold for effect, i.e. all exposures to a chemical are assumed to be associated with some risk. Table 12 and Table 13 present the CSFs used in this assessment and the sources from which they were obtained. Preference was given first to the use of CSFs listed in the Cal/EPA Cancer Potency database. If CSFs were unavailable from Cal/EPA, then they were obtained from the federal EPA's IRIS database, and if unavailable from this source, they were obtained from the federal EPA's HEAST database as referenced in the USEPA Region IX Preliminary Remedial Goals table.

7.3.2 NON-CARCINOGENIC EFFECTS

For the purpose of assessing risk associated with non-carcinogenic effects, the USEPA has adopted a science policy position that protective mechanisms such as repair, detoxification, and compensation must be overcome before an adverse health effect is manifested. Therefore, a range of exposures exists from zero to some finite value (a threshold) that can be tolerated by the organism without appreciable risk of adverse effects occurring.

Non-carcinogenic effects were evaluated using reference doses (RfDs) developed by the USEPA. The RfD is a health-based criterion based on the assumption that thresholds exist for non-carcinogenic toxic effects. In general, the RfD is an estimate (with uncertainty) of a daily exposure to the human population that is likely to be without appreciable risk of chronic effects during a lifetime of exposure. RfDs are expressed as acceptable daily doses in milligrams of compound per kilogram of body weight per day (mg/kg-day). Most RfDs are based on oral exposure data. Table 12 and Table 13 present the RfDs and RfCs used in this assessment and the sources from which they were obtained. For inhalation RfDs and RfCs, preference was given first to the use of RfC values listed by Cal/EPA in their Chronic Reference Exposure Levels Database. Using these RfC values, RfDs were calculated by multiplying the RfC value by (20 cu m/[70 kg * 1,000 ug/mg]).

Dermal absorption fraction values for organic chemicals in soil were taken from Table 2 of the PEA Guidance Manual (DTSC, 1994 second printing 1999).

7.4 SOIL GAS TO INDOOR AIR TRANSPORT MODELING

The PEA procedures do not provide a method for evaluating soil-gas results. For this PEA analysis, Earth Tech modeled VOC transport from the subsurface to indoor air using the USEPA (2001) spreadsheet program for the Johnson and Ettinger vapor intrusion model as modified by DTSC/HERD in December 2001. DTSC entitled this program the "SG-SCREEN" (soil gas screen) Version 1.0. Indoor air concentrations were modeled by Earth Tech using the maximum detected soil-gas concentrations.

The concentration of a chemical in indoor air is a function of the concentration of the chemical in the soil gas, physical/chemical properties of the chemical in the soil, attenuation factors, and the characteristics of the building. The SG-SCREEN model uses default assumptions that pertain to the building characteristics, such as its size and air exchange rate. Physical/chemical properties of the VOCs that were

not provided in the "VLOOKUP" table accompanying the model were obtained or calculated from chemical data provided on either the USEPA Region 9 Preliminary Remediation Goals website (www.epa.gov/Region 9/waste/sfund/prg/s4) or the National Institute of Standards and Technology (NIST) website (http://webbook.nist.gov/chemistry/name-ser.html). The chemicals for which physical chemistry values were supplied were: dichlorodifluoromethane; trichlorofluoromethane; 1,3,5-trimethylbenzene; and 1,2,4-trimethylbenzene.

Soil properties needed for input into the model are soil dry bulk density, total porosity and water-filled porosity. Earth Tech collected and tested three soil samples from the site to obtain site-specific data for these properties. Test results are presented in Table 8. The soil physical parameters used in the model are also presented in Table 8. Table 14 summarizes the general parameters input into the model or added to the VLOOKUP table in the model.

The EPA Johnson and Ettinger model is based on a residential scenario. The model default building was used (i.e., an enclosed space with a slab floor that is 15 centimeters [cm] thick). The model default values for space height (466 cm or 8 feet), floor-wall seam crack width (0.1 cm), and indoor air exchange rate (11.2 cu cm per sec) were used. The depth to the top of contamination was assumed to be the depth at which each soil gas sample was collected. These depths varied between 9-20 ft bgs, as shown by the last two digits of the respective soil gas sample number (column 3 in Table 15).

Two sets of soil gas data were collected at the site. One set was analyzed using EPA Method 8260 analysis. PCE was the only VOC detected using this method (max 1500 µg/cu m). The second set was analyzed using EPA Method TO-14A. Eight soil gas samples were collected and analyzed using the TO-14A Method, and 13 VOCs were detected (max. PCE was 5,789 µg/cu m). Analytical results are presented in Appendix D. Because the TO-14A method is more sensitive, higher concentrations of PCE and more analytes were detected using this method, and the 8260 Method only detected PCE, maximum detected concentrations from the TO-14A results were used for Johnson & Ettinger soil gas modeling (Table 15).

The results of the Johnson and Ettinger model using the maximum concentration of each chemical in soil gas evaluated for indoor air are based on default input parameters and the site-specific input parameters (porosity, bulk density, water-filled porosity, estimated depth to contamination, organic carbon content,

and soil permeability). In general, using the default values will result in higher indoor air concentrations and, thus, higher incremental risks. In addition, the site-specific parameters, which are moderate to highly sensitive model variables, have the following effect on the Earth Tech model results:

- The calculated water-filled porosity based on site-specific data is considered approximately average at 0.103 cm3/cm3. The model default value is 0.30 cm3/cm3. The lower the value, the greater the effect on indoor air concentrations.
- For modeling purposes, the depth to the top of soil contamination ranged from 9-20 feet bgs based on the sample depth at which the maximum VOC concentrations were detected. The shallower the depth, the greater the effect on indoor air.
- The average measured total porosity is 0.442, which is within the range for sandy loam. The model default value is 0.43. A higher value increases indoor air concentrations.
- Average soil bulk density is 1,505 g/cm3. A higher value decreases the effect on indoor air; however, soil bulk density has low sensitivity in the model.
- Based on boring logs, the soil was evaluated on a conservative basis as a sandy loam by Earth Tech.

For a complete discussion of the model assumptions and parameters, refer to the Johnson and Ettinger model (EPA, 1997). The results of the modeling are provided in Appendix E. Table 15 summarizes the organic chemicals modeled, the chemical abstracts number for each chemical, its maximum concentration, and the sample containing the maximum concentration.

7.5 SOIL GAS TO OUTDOOR AIR TRANSPORT MODELING

Soil gas can migrate to outdoor air as well as to indoor air. The outdoor air pathway is a complete path and risks/hazards have been evaluated. The DTSC's PEA Guidance Manual (DTSC, 1994 second printing 1999) provides equations for estimating the emission rate and dispersion of subsurface VOCs to outdoor air. These equations were taken from an EPA Superfund guidance document, which has been revised since the PEA Guidance Manual (DTSC, 1994 second printing 1999) was published. The soil gas concentration was converted to an estimated soil VOC concentration using the following equation:

$$CT = CG[\theta_W + (\Pi - \theta_W)KH + (Kocfoc)]/(\rho_bKH)$$

Where:

CT total soil concentration (ug/kg)

- CG soil gas concentration (ug/L)
- Ow soil water content by volume (dimensionless)
- n total soil porosity (dimensionless)
- Kii Henry's Law Constant (dimensionless)
- ρ₆ dry bulk soil density (g/cu cm)
- Koc organic carbon partition coefficient
- for soil organic carbon content (dimensionless)

This equation was provided by the California Regional Water Quality Control Board-Los Angeles office in their Interim Guidance for Remediation of VOC Impacted Sites (January 1995). It is based on a partitioning model and relies on the fundamental assumption of chemical equilibrium between phases, and requires site-specific soil parameters. Table 15 shows the soil parameters and soil VOC concentrations calculated using the above equation. Using the PEA screening equations for VOCs in ambient air, each calculated soil VOC concentration was used to calculate the health risk and health hazard values resulting from VOC exposure by inhalation of outdoor air. The same COPCs used for indoor air modeling were also used to evaluate the outdoor air pathway.

7.6 RISK CHARACTERIZATION SUMMARY

The objective of this section is to integrate information developed in the toxicity assessment and the exposure assessment sections into a complete evaluation of the current and future health risks associated with COPCs detected at the site. This risk assessment evaluates the nature and degree of health risks to hypothetical residential receptors at the site. Health hazard and risk estimates are derived for each COPC as well as for the combined effects that may result from exposure to all COPCs.

7.6.1 HUMAN CARCINOGENIC EFFECTS

Carcinogenic risk from both soil and soil-gas is estimated as the incremental probability of an individual developing cancer over a lifetime as a result of exposure to one or more of the COPCs. The non-cancer health hazard (expressed as the hazard quotient) is estimated by comparing the estimated exposure levels

with the exposure level at which no adverse health effects are expected to occur as a result of chronic exposure (i.e., reference dose). Human health risk and hazard quotient evaluations were performed in accordance with the PEA Guidance Manual (DTSC, 1994 second printing 1999). Individual chemical cancer risks were estimated for soil using the following PEA equations:

For dermal contact and oral ingestion:

$$Risk_{soil} = (SF_0, *C_s, *1.57E-06) + (SF_0, *C_s, *1.87E-05 *ABS)$$

Where: SF₀ = Oral slope factor

C_s = Concentration in soil ABS = Skin absorption factor

For inhalation of outdoor air containing dust or VOCs:

$$Risk_{soil} = SFi * C_a * 0.149$$

Where: SFi = Inhalation slope factor

Ca = Concentration in air (for dust C_a=C_s,* 5x 10⁻⁸; for VOCs, C_a = [(emission rate)/99] where the emission rate was calculated using the equation in Figure 2.6 of

rate was calculated using the equation in Figure 2 the PEA Guidance Manual

The incremental cancer risk estimated to result from accidental ingestion of soil and dermal contact is presented in Table 16. The incremental cancer risk estimated to result from inhalation of outdoor air containing dust particles impacted by site-related chemicals is presented in Table 17. The incremental cancer risk estimated to result from inhalation of outdoor air containing site-related VOCs is presented in Table 23.

A total estimated carcinogenic risk is determined by summing all of the individual cancer risks. The health risk results are compared against DTSC's screening level risk value of one in one million (1E-06) and EPA's acceptable risk range of 1E-06 to one in ten thousand (1E-04). If the total estimated risk is below 1E-06, the carcinogenic health risk to individuals under the given exposure conditions is deemed acceptable. If the estimated risk exceeds 1E-06, carcinogenic health risk to individuals under the given exposure conditions, the risk requires risk managers to balance risks with other criteria to assess the need for mitigation.

7.6.2 HUMAN NON-CARCINOGENIC EFFECTS

USEPA's policy regarding non-carcinogenic chemicals differs from its policy for carcinogens (USEPA,

1989). With respect to non-carcinogens, it has been postulated that for systemic toxicity effects to occur,

physiological, homeostatic, compensating, and adaptive mechanisms existing in humans must first be

rendered inactive prior to any manifestation of a particular toxic response. USEPA's theory for non-

carcinogens is that the toxic response has a "threshold" concentration above which toxic effects may

occur.

The USEPA has established reference doses for several of the non-carcinogenic COPCs, which represent

the dose of the chemical not expected to result in adverse health effects, even over a lifetime of exposure.

Individual chemical non-carcinogen hazard quotients for soil were estimated using the following

equations:

For dermal contact and oral ingestion:

Hazard_{soil} =
$$(C_s/RfD_o * 1.28x10^{-5}) + (C_s/RfD_o * 1.28x10^{-4} * ABS)$$

Where: C_s = Concentration in soil

RfDo = Oral reference dose
ABS = Skin absorption factor

For inhalation of outdoor air containing dust or VOCs:

$$Hazard_{soil} = (C_a/RfDi)*0.639$$

Where: C_a = Concentration in air

RfD: = Inhalation reference dose

A hazard index was calculated as the sum of all hazard quotients. If the non-carcinogenic hazard index is

less than 1.0, the non-carcinogenic health hazard to individuals under the given exposure conditions is

deemed acceptable.

The hazard index estimated to result from accidental ingestion of soil and dermal contact is presented in

Table 18. The hazard quotient estimated to result from inhalation of outdoor air containing dust particles

impacted by site-related chemicals is presented in Table 19. The hazard quotient estimated to result from inhalation of outdoor air containing VOCs is presented in Table 24.

7.6.3 SOIL RISK CHARACTERIZATION

The total incremental cancer risk for hypothetical residential exposure to soil through direct contact (including incidental ingestion, dermal contact and inhalation of dust particles) was estimated to be 8E-04 (Table 20). The chemicals that contributed to more than 99.9 percent of the estimated incremental cancer risk were the carcinogenic PAHs detected in soil sample SB-21-0.5. The lateral extent of PAH impacted soil seems to be very limited as only one of 77 samples collected at the site contained detectable concentrations of SVOCs. In addition, factors, such as the presence of asphalt or buildings at the proposed school (which reduce the potential for soil contact) or the likely removal of shallow soil during the demolition and construction phase of the project, are not considered when calculating health risk.

The estimated hazard index for hypothetical onsite receptors is presented in Table 20. The total hazard index for hypothetical residential exposure to site-related chemicals was estimated to be 2.7E-02. The estimated hazard index for the site is estimated to be below 1.0, the benchmark level for non-cancer effects.

7.6.4 SOIL-GAS RISK CHARACTERIZATION

To estimate health risks to individuals from exposure to indoor air, Earth Tech calculated the cancer risks and hazard quotients potentially resulting from exposure to organic compounds detected in soil gas. The organic chemicals listed in Table 15 were modeled using the Johnson & Ettinger soil screening program at the maximum concentrations detected in soil-gas samples. The Johnson & Ettinger model is a mathematical screening-level model that incorporates both convective and diffusive mechanisms for estimating the transport of contaminant vapors emanating from either subsurface soils or groundwater into indoor spaces located directly above or in close proximity to the source of contamination.

The total cancer risk and hazard index associated with exposure to affected indoor air were calculated to be 4.2E-07 (Table 21) and 7.8E-03 (Table 22), respectively. The total hazard index for this pathway is below the level of regulatory concern (i.e., 1.0). The cancer risk is also lower than the DTSC maximum risk criterion of IE-6. Also note that the use of the maximum detected soil gas concentrations provides a conservative estimate of associated cancer risks and health hazards. Furthermore, assuming that a

resident resides at the site 24 hours per day for 30 years also provides a conservative estimate of the chemical exposure. Johnson & Ettinger model outputs are presented in Appendix E.

In addition to the risks from soil gas to indoor air, the effect of soil gas to outdoor air was also calculated. The cancer risks and health hazards due to inhalation of VOCs in outdoor air were calculated using equations from the PEA Guidance Manual as described in Sections 8.6.1 and 8.6.2 and calculated VOC concentrations in soil. The VOC concentrations in soil were derived using soil gas VOC concentrations as described in Section 7.4.

For all analytes modeled, the risk due to inhalation of outdoor air was approximately an order of magnitude smaller than the risk due to inhalation of indoor air. The hazard due to inhalation of outdoor air is also approximately an order of magnitude smaller than the hazards due to inhalation of indoor air. These results are summarized in Table 23 and Table 24.

Table 23 shows that the estimated cancer risk due to inhalation of VOCs in outdoor air was 2.2E-9. This value is below the de minimus level of concern of 1E-6. Table 24 shows the estimated health hazard indices due to inhalation of VOCs in outdoor air was 1.2E-3. This value is also below the de minimus level of concern of 1.0. Therefore, the health hazards and cancer risks associated with inhalation of VOCs in outdoor appeared to be negligible.

7.6.5 CUMULATIVE RISK AND HAZARD

Cumulative potential risks from soil and soil-gas exposure were calculated by summing all pathways (Table 25). The total cancer risk is 8E-4 at the proposed school site, which exceeds the de minimis acceptable criteria of 1E-6. As explained in Section 7.6.3, this value resulted primarily from the concentration of PAHs in one shallow soil sample. Without this result, the total site cancer risk would be less than the maximum DTSC acceptable incremental cancer risk level of 1E-6. Note that the modeled risk is based on the maximum detected concentrations in soil and soil-gas samples rather than an estimate of the average concentrations and therefore provides a conservative estimate of health risk.

The cumulative site hazard index (HI) is 3.67E-02, which is below the target HI of 1.0. Therefore, the likelihood that one would experience non-carcinogenic adverse health effects due to exposure to on-site chemicals is negligible.

7.7 UNCERTAINTY ANALYSIS

As stated in the PEA Guidance Manual, the purpose of the human health screening evaluation is not to predict individual health risks but to provide risk managers with an estimate of potential chronic health hazards from chemicals at the site. As a result, the estimated risk values involve uncertainties that reflect the modeled COPC concentrations and the assumptions made for model input variables such as exposure duration, intake rates, calculated exposure concentrations in indoor and outdoor air, soil type and associated site-specific physical parameters. If information was incomplete, conservative values were selected for input into the calculations to estimate cancer risks and non-carcinogenic health hazards. For these reasons, results of a PEA typically overestimate risk/hazards. Actual risks and hazards are likely to be much lower, depending on the actual receptor exposures and land uses. Hence, estimated health risks in this document are expected to be protective of human health.

7.8 UNCERTAINTIES ASSOCIATED WITH COPCS

It was assumed that all detected pesticides, PAHs, SVOCs and VOCs were COPCs because they were likely derived from human activities. Hence, their natural background concentrations are assumed to be nil. However, PAHs, SVOCs and VOCs may be present in site media as a result of non-site related urban activities. The maximum detected concentration of each analyte in soil and soil gas was assumed to be representative of concentrations throughout the site. A more accurate representative concentration would be the average concentration, or the 95% upper confidence limit (UCL) on the mean. Use of the highest concentration is thus a conservative assumption that results in an overestimation of associated health risks.

The equation in Section 7.5 that was used to convert soil gas VOC concentrations to soil VOC concentrations derives a ratio of the volume within soil that soil gas can occupy and multiplies this ratio by the soil gas VOC concentration to derive the soil VOC concentration. This equation assumes that within the soil matrix, VOCs bound to soil particles, VOCs in the vapor phase and VOCs dissolved in soil water are in equilibrium. A number of field research reports were conducted to evaluate the validity of the model, and results have been mixed. Hence, it is unclear whether this calculation leads to a more or less conservative estimate of soil VOC concentrations. Risk estimates due to inhalation of outdoor air containing VOCs is thought to be conservative because of the assumed extended exposure duration as discussed in Section 7.7.3 below.

7.8.1 UNCERTAINTIES INVOLVING TOXICITY FACTORS

As discussed in Sections 8.6.1 and 8.6.2, cancer slope factors and non-carcinogenic reference doses are derived from toxicity experiments using laboratory animals. Extrapolation of toxicity factors derived from animal tests for use in deriving health risk estimates for humans involve several assumptions that make the resulting risk estimates conservative. These assumptions generally involve dividing the toxicity value derived from animal studies by factors of 10 to account for each of the following differences in: (a) toxic response between test animals and humans, (b) susceptibility between individuals within the human population, (c) using non-chronic data to estimate chronic toxicity responses, and (d) use of the Lowest Observable Adverse Effect Level (LOAEL) instead of a No Observable Adverse Effect Level (NOAEL) to estimate the threshold for a reference dose. In addition, modification factors are also divided into toxicity values to account for differences in metabolism and/or the mechanism of toxicity of a xenobiotic between test animals and humans. Therefore, the cancer slope factors and non-carcinogenic reference doses used to derive human health risk estimates are themselves derived using conservative assumptions.

7.8.2 UNCERTAINTIES INVOLVING ESTIMATED EXPOSURE CONCENTRATIONS

In addition to using the highest detected concentrations as representative exposure concentrations, additional exposure assumptions make the risk estimates derived in this document conservative. For example, use of the residential exposure scenario assumes that a child is raised on-site for the first six years of his life, and then lives on-site as an "adult" for the next 24 years of his life. This is a conservative assumption because it assumes an exposure period of 24 hours per day, 365 days per year for a total of 30 years. A more realistic exposure for the proposed school site would be 6-8 hours per day for "adult" students (i.e., seven years of age and older) for a total of three years, and eight hours per day for 191 days per year for 30 years for teachers and administrators.

To estimate risks due to soil ingestion exposures, algorithms in the PEA Guidance Manual assume that a child will ingest 0.2 grams soil per day. Analogous assumptions are made to estimate dermal exposures. These assumptions are conservative because the site will be landscaped, and little, if any, exposure to soil should occur. In addition, most of the time that a receptor spends on-site will be indoors. Hence, it is anticipated that the assumptions used to estimate chemical exposures in this risk assessment are conservative.

This model assumes that VOCs diffuse upwards from subsurface soils and enter buildings through cracks in the foundation due to a slight negative pressure indoors that is created by outside air movement. The model assumes default values for a hypothetical building perimeter, area of the foundation below grade, and the foundation crack area. It uses soil properties and chemical properties of each contaminant to estimate the vapor influx rate into the hypothetical building. It is unclear whether such assumptions result in conservatively high or low health risk estimates. The best way to evaluate the conservative nature of the model is to compare modeling results with actual field measurements. This model also assumes a 350 day per year for 30 year exposure duration. As discussed above, this is a conservative assumption that leads to higher risk estimates.

7.8.3 UNCERTAINTIES ASSOCIATED WITH THE CUMULATIVE SITE RISK ESTIMATE

The cumulative site cancer risk of 8.0E-4 was due solely to hypothetical exposures to PAHs (Table 25). As discussed in Section 7.6.3, estimated PAH exposure point concentrations were based on test results from a single soil sample, SB-21-0.5. Hence, the PAH concentrations used for deriving risk estimates were not representative of overall site conditions. Step-out borings installed around SB-21-0.5 revealed much lower PAH concentrations. Therefore, site health risks estimated based on PAH exposures are overly conservative.

Without the risk contributed by the PAHs, the overall site risk is approximately 9.6E-07. This value was derived based on estimated exposures to pesticides in soil and VOCs in indoor air. As discussed above, the exposure duration and toxicity value assumptions used to derive this risk estimate are conservative. This risk value overestimates the actual site health risk. Because the risk value of 9.6E-07 is lower than the regulatory benchmark of 1E-6 for school sites, and is a conservative estimate, it appears that the incremental cancer risk due to inhalation of VOCs at the site is insignificant.

- TPH was detected at low to trace concentrations in one boring (SB-6) at five and nine feet bgs. The concentrations of TPH detected are not considered to be a concern.
- PCBs were not detected at the site.
- The concentration of pH ranged from 4.12 to 5.84.

13.1.4 HUMAN HEALTH SCREENING EVALUATION

A total of 30 chemicals were identified as COPCs in soil and soil gas at the site. These COPCs were evaluated in the human health screening evaluation.

Using maximum COPC concentrations detected at the site, a total incremental cancer risk for hypothetical residential exposure to soil through direct contact (including incidental ingestion, dermal contact and inhalation of dust particles) was estimated to be 8E-04. The chemicals that contributed to more than 99.9 percent of the estimated incremental cancer risk were the carcinogenic PAHs detected in soil sample SB-21-0.5. The lateral extent of PAH impacted soil seems to be very limited as only one of 77 samples collected at the site contained detectable concentrations of PAHs.

The total hazard index for hypothetical residential exposure to soil through direct contact (including incidental ingestion, dermal contact and inhalation of dust particles) was estimated to be 2.7E-02. The estimated hazard index for the site is below 1.0, the benchmark level for non-cancer effects.

The total cancer risk and hazard index associated with exposure to VOC-impacted indoor air were calculated to be 4.2E-7 and 7.8E-03, respectively. The cancer risk is lower than the DTSC risk criterion of 1E-6. The total hazard index for this pathway is below the level of regulatory concern (i.e., 1.0).

The use of the maximum detected soil gas concentrations provides a conservative estimate of associated cancer risks and health hazards. Furthermore, assuming that a resident resides at the site 24 hours per day for 30 years also provides a conservative estimate of the chemical exposure.

For all analytes modeled, the risk due to inhalation of outdoor air was approximately three orders of magnitude smaller than the risk due to inhalation of indoor air. The hazard index due to inhalation of outdoor air was more than an order of magnitude smaller than the hazard index due to inhalation of indoor air. The estimated cancer risk due to inhalation of VOCs in outdoor air was 2.2E-9. This value is below the cancer risk criterion of 1E-6. The estimated total health hazard index due to inhalation of VOCs in outdoor air was 1.2E-3. This value is also below the level of concern of 1.0.

Cumulative potential risks from soil and soil-gas exposure were calculated by summing all pathways. The total cancer risk is 8E-4 at the proposed school site, which exceeds the acceptable criteria of 1E-6. If the PAHs data from SB-21-0.5 were removed, the total site cancer risk would be less than the cancer risk criterion of 1E-6. Note that the modeled risk is based on the maximum detected concentrations in soil and soil-gas samples rather than an estimate of the average concentrations and therefore provides a conservative estimate of health risk. The cumulative site hazard index is 3.67E-02, which is below the target hazard index of 1.0.

13.2 RECOMMENDATIONS

Based on the concentrations of PAHs detected in soil sample SB-21-0.5, additional assessment to determine the distribution and occurrence of elevated SVOCs should be conducted in the form of a supplemental site investigation (SSI). Results of the SSI will be summarized in a SSI Report with recommendations for either remedial action or no further action. Based on the results of this PEA, no further action for the remainder of the site should be required.

Taole 8
Summary of Soil Analytical Data - Physical Properties
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Methods: ASTM D2:	216, API RP4	O, ASTM	05084, EPA	9060B						25.0 PSI C	onfining Stress
									Total	Native State Effective	Native State Effective
Total at 1	Sample	Moisture	De	ensity	Porosity,	%Vb (2)	Por	e Fluid	Organic	Permeability	Hydraulic
Sample ID	Orientation	Content	Bulk	Grain	Lagrange I	Air	Saturatio	ns, % Pv (3)	Carbon		Conductivity (5
	(1)	(% wt)	(g/cc)	(g/cc)	Effective	Filled	Water	Hydrocarbon	(mg/kg)	(millidarcy)	(cmfs)
SB-9-Physical	v	7.1	1.38	2.69	48.7	38.3	21.3	ND<0.1	1800	28.2	2.66E-05
SB-12-Physical	V	5.3	1.50	2.68	43.9	35.6	18.9	ND<0.1	7300	336	3.04E-05
SB-16-Physical	V	6.0	1.49	2.69	44.6	35.3	21.0	ND<0.1	1400	32.6	3.15E-04
SB-29-Physical	V	9.0	1.65	2.72	39,5	24.4	36.2	2.5	500	203	1.90E-04
Average Values		6.850	1.505	2.695	44.175	33.4			2750	149.95	1.41E-04
Converted	Bulk Density (g/cm³)	Soil Total Porosity (unitless)	Moisture Content (unitless)	Grain Density (g/cm³)	Soil Water filled Porosity	Air-filled Porosity	Fraction Organic Carbon	Soil Vapor Permeability (cm²)			
Parameter Value	1.505	0.442	0.0685	2.695	0.103	0.339	0.0028	1.87E-09			
Conversion		n/100	MC/100		(1-n)(w)(G) or (n ^v - qv)	(n - qm)	(Toc / 10 ⁶)				

Table 14
Source of Inputs Used for the Johnson and Ettinger
Soil Gas Vapor Intrusion Model
East Valley Middle School
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Input Paramter	Value	Source of Value
Depth below grade to bottom of enclosed space floor	15 cm	J&E Default value
Soil gas sampling depth below grade	274-609 cm	Specific for identified contaminants (last digits of sample # are ft bgs)
Avg soil temperature	20.2 °C	Measured site data
Predominant vadose zone SCS soil type	Loamy Sand (LS)	Averaged from boring logs for borings ≥ 10 ft depth (Appendix A)
Soil dry bulk density	1.505 g/cu cm	Measured physical soils site data (Appendix B)
Soil total porosity	0.442	Measured physical soils site data (Appendix B)
Soil water-filled porosity	0.103	Measured physical soils site data (Appendix B)
Toxicity values	RrCinh or URFinh	OEHHA and IRIS values as shown on enclosed VLOOKUP Table
Physical chemical properties of analytes	varies	Determined from VLOOKUP Table and NIST website

Table 21 Incremental Cancer Risk Estimated for Exposure to Soil Gas VOCs in Indoor Air

Hypothetical On-Site Residential Receptors East Valley Middle School Laurel Canyon Boulevard and Hamlin Street Los Angeles, California

75,38 171.30	NA	NA.
100000000000000000000000000000000000000	NA	NA.
171 30		1777
1/1.50	NA	NA
7.76	NA	NA
6.17	2.90E-05	2.23E-09
99.58	NA	NA
20,74	2.00E-06	5.13E-10
5789.58	5.90E-06	4.20E-07
295.65	NA	NA
1147.31	NA	NA
11.93	NA	NA
485.40	NA	NA
139.88	NA	NA
1848.46	NA	NA
	6.17 99.58 20.74 5789.58 295.65 1147.31 11.93 485.40 139.88	6.17 2.90E-05 99.58 NA 20.74 2.00E-06 5789.58 5.90E-06 295.65 NA 1147.31 NA 11.93 NA 485.40 NA 139.88 NA 1848.46 NA

Notes:

VOCs = volatile organic compounds ug/cu m = micrograms per cubic meter NA = not applicable

Table 22 Health Hazards Estimated for Inhalation of Soil Gas VOCs in Indoor Air Hypothetical On-Site Residential Receptors East Valley Middle School Laurel Canyon Boulevard and Hamlin Street Los Angeles, California

Chemical	Maximum Soil Gas VOC Concentration	Chronic Inhalation Reference Concentration (RfC)	Inhalation Hazard Quotient
	(ug/cu m)	(mg/cu m)	(unitless)
Soil VOCs			
Dichlorodifluoromethane	75.38	2.00E-01	1.1E-05
Trichlorofluoromethane	171.30	7.00E-01	7.1E-06
1,1,1-Trichloroethane	7.76	1.00E+00	2.2E-07
Benzene	6.17	6.00E-02	3.0E-06
Toluene	99.58	3.00E-01	9.6E-06
Trichloroethene	20.74	6.00E-01	1.0E-06
Tetrachloroethene	5789.58	3.50E-02	4.8E-03
Ethylbenzene	295.65	2.00E+00	4.3E-06
p/m Xylene	1147.31	7.00E-01	4.7E-05
Styrene	11.93	9.00E-01	9.8E-06
o-Xylene	485.40	7.00E-01	2.0E-05
1,3,5-Trimethylbenzene	139.88	6.00E-03	5.8E-06
1,2,4-Trimethylbenzene	1848.46	6.00E-03	3.0E-03
TOTAL HEALTH HAZA	RD		7.8E-03

Notes:

VOCs = volatile organic compounds ug/cu m = micrograms per cubic meter mg/cu m = milligrams per cubic meter

Table 25 Summarized Total Site Cancer Risks and Health Hazards East Valley Middle School Laurel Canyon Boulevard and Hamlin Street Los Angeles, California

COPC Class	Cancer Risk Ingestion/Dermal Pathway	Cancer Risk Inhalation Pathway	Health Hazard Ingestion/Dermal Pathway	Health Hazard Inhalation Pathway	
Pesticides	1.78E-08	6.22E-11	6.30E-04	1.20E-06	
SVOCs	8.04E-04	5.20E-07	2.70E-02	2.69E-05	
VOCs (ambient)	NA	2.20E-09	NA	1.20E-03	
VOCs (indoor)	NA	4.23E-07	NA	7.82E-03	
Subtotal Risks/Hazards	8.04E-04	9.45E-07	2.76E-02	9.05E-03	
Total Site Cancer Risk or Health Hazard	8.05E	-04	3.671	E-02	

Notes:

NA = Not applicable

APPENDIX B BORING LOGS

E A R T H 🔵 T E C H

Proje	ct Na	me:		LAU	SD-E	VMS					Project Number: 53306	Bore		SB-1
Bore	hole I	Loca	tion	: N	parki	ng lot, un	der trans	sformer		No	ing: Easting:			Sheet 1 of 1
Drilli	ing A	gene	cy:		EST						Driller:	Alex Chapm	an	•
Drilli	ing E	quip	men	ıt:	Truc	k mounte	ed Geops	obe			Date Started:	1/25/2002	Total Depti	(feet): 3.0
Drilli	ing M	etho	od:		Dire	ct Push				Numb	of 3 Date Finished:	1/25/2002		1 to ock (feet):
Drilli	ing Fl	uid:			None	е				Borch	Depth to	rilling:	1	Static: NA
Com	pletio	n In	form	nation	: Bac	kfilled w	ith bento	nite and	d capp	-	Planet.			
											Logged By: L. Bro	owne	Check	ted By: Steve Williams, R.
		5	Sam	ples		Field	d Analy	ses	L	og			T	
Depth (feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	Lithologic Description	on		Remarks
	SB-1 -1 SB-1 -3	X		100	1206 1210		0			SM	ASPHALT; parking lot SILTY SAND; Medium brown, 65% to fine), 35% silt, moist, micaceous	sand (coarse , no odor.	<i>J</i> -	Start @ 1205 Duplicate sample (SB-1-3-DUP) taken
110													ليماجيا بالمراجا فليطيئا بالماحا والبالماءا والكاماء الماجاء الماعاتيان	



										RO	hole Log	
Proje	ct Na	ume		LAU	ISD-E	VMS				-	Project Number: 53306 Borehole Number:	SB-2
Borel	nole l	Loc	ation	: In	nmedia	ately Sou	th of was	ste oil t	ank	No		Sheet 1 of 1
Drilli	ng A	gen	cy:		EST						Driller; Alex Chapman	
Drilli	ng E	quip	men	ıt:	port	able GH-	40 Geop	robe				al 5.0 th (feet):
Drilli	ng N	leth	od:		Dire	ct Push			Ш	Num	Date Finished: 1/24/2002 Bed	oth to lrock (feet):
Drilli	ng F	luid			Non	е				Bore Dian	(in): 2 Depth to Water (feet): Drilling:	Static: NA
Com	pletic	on I	nform	natio	n: Bac	kfilled w	ith bento	onite an	d capp	ed wit	Elevation (feet MSL):	
_						172° - 1					Logged By: L. Browne Che	cked By: Steve Williams, R
				ples			d Analy			og		
Depth (feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	Lithologic Description	Remarks
	SB-2	IA		100	1042		0			SM	CONCRETE; pad SILTY SAND; Medium brown, 70% sand (medium – o fine), 30% silt, trace gravel, dense, moist, nicaceous, no odor.	Start @ 1040
=	SB-2 -3	\forall			1043		0			SM	SILTY SAND; Medium brown, 50% fine sand,	
5	SB-2	Δ		100	1044		0			SW	0% silt, dense, moist, micaceous, no odor. AND; Light brown, 90% sand (coarse to fine), 0% silt, trace gravel, loose, well graded, moist,	
-		P									nicaceous, no odor.	
-						1					3	
-			М			V (
10-					/1							
1											3	
-												
15-											3	
20			М							1	÷ i	
											3	
=										3		
20-						Y 11					To the state of th	
-									Ш			
-											3	
25											3	
-											7	
=											3	
=											4	
30								-			3	



										DO	enoie Log					
Proje	ct Na	me:		LAU	SD-E	VMS					Project Number: 53306	Borel Numl	hole ber:	SB-3		
Borel	ole I	Loca	ation	: Im	media	tely Nort	h of was	te oil ta	ank	No	ing: Easting:			Sheet	1 of	1
Drilli	ng A	gen	cy:		EST						Driller:	Alex Chapm	an			
Drilli	ng Ed	quip	mer	ıt:	port	able GH-	40 Geop	robe			Date Started: 1	1/24/2002	Total Depth	(feet);	5.0	
Drilli	ng M	lethe	od:		Dire	ct Push				Num	Date Finished:	1/24/2002	Depth Bedroo	to k (feet):		
Drilli	ng Fl	uid:			Non	e				Bore Dian	r (in): 2 Water (feet): Drill	ling:		Static: NA		
Com	oletio	n Ir	for	nation	ı: Bac	kfilled w	ith bento	nite an	d capp	ed wit	Elevation (feet MSL)					
	-	•	Z	ples		Field	d Analy	le en	1	12	Logged By: L. Brow	me	Checke	ed By: Ste	ve Willia	ns, R
Depth (feet)	Number	Type	nut	Percent Recovery	Time	FID (ppm)	PID (ppm)	Additional F		USCS or Rock Type	Lithologic Description	n		Ren	narks	
-	SB-3 -2 SB-3 -5	M	B	100	1052		I o o			SM	CONCRETE; pad SILTY SAND; Medium brown, 70% s. to fine), 30% sllt, trace gravel, dense, micaceous, no odor. SAND; Light Brown, 90% sand (coars 10% silt, trace gravel, loose, moist, modor.	, moist,	m	Start @ 10	950	
25													alitabilitation			



Proje	ct Na	une		LAU	SD-EV	/MS					Project N	umber: 53306	Bore		SB-4
Boret	ole I	Loce	ation	: A	djacent	to oil-w	ater sepe	rator		No	rthing:	Easting:			Sheet / of /
Drilli	ng A	gen	cy:		EST							Driller: Alex	Chapm	an	
Drilli	ng E	quip	mer	it:	porta	ble GH-	40 Geopi	robe				Date Started: 1/25/	2002	Total Depth	15.0
Drilli	ng M	ieth	od:		Dire	et Push				Nom	per of 4	Date Finished: 1/25	2002	Depth Bedro	to ock (feet):
Drilli	ng Fi	bio			None	3				Borel Diam	nole eter (in): 2	Depth to Water (feet): Drilling:			Static: NA
Comp	pletio	on I	for	nation	n: Bacl	kfilled w	ith bento	nite an	d capp	ed wit	concrete	Elevation (feet MSL);			
												Logged By: L. Browne		Check	ted By: Steve Williams, R
			Sam	ples			d Analy	ses	L	og					
Depth (feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	L	ithologic Description			Remarks
11411	SB-4	X		100	1104		0			SP-S	M CONCRETE; SILTY SAND, sand (mediun micaceous, n	, poorly graded; Medium bro n to fine), 30% silt, dense, r	own, 70 noist,	%-	Start @ 1100
5-1	SB-4 -5	X		100	1109		0			SP-S		, poorly graded; Medium bronto fine), 35% silt, dense, roodor.	own, 65 noist,	% <u> </u>	
10-	SB-4 -10	X		100	1117		o			sw	- sand (coarse	SAND, well graded; Light br to fine), 20% gravel (sub-ar e, moist, micaceous, no od	ngular),	0%	
15-	SB-4 -15	X		100	1125		0		• C	sw	- (coarse to fine	raded; Light brown, 75% sa e), 15% gravel (sub-angula pist, micaceous, no odor.			
FICENT														la kal	
20-														dilli	
25-														111111	
Tilif														Lilila	
-					1						=			1	



										DU	renote L	yg .							
Proje	ct Na	ame		LAU	SD-EV	VMS					Project N	umber: 53306	Borel		SB-5				
Borel	note 1	Loca	ation	: So	outhern	bounda	ry of fon	mer US	T area	. No	rthing:	Easting:			Sheet	1	of	1	
Drilli	ng A	gen	cy:		EST							Driller: Alex	Chapm	an					
Drilli	ng E	quip	mer	ıt:	Truc	k mount	ed Geopi	robe		Date Started: 1/25	2002	Total Depth	(feet):		15.0				
Drilli	ng M	feth	od:		Dire	ct Push				Date Finished: 1/25	2002	Depth Bedro	to ock (feet)	9					
Drilli	Orilling Fluid: None Samples: 7 Borehole Diameter (in): 2											Depth to Water (feet): Drilling:			Static: 1	VA.			
Com	pletic	on Ir	ıfon	nation	n: Back	kfilled w	ith bento	nite and	d capp		n concrete	Elevation (feet MSL)							
												Logged By: L. Browne		Check	ced By:	Steve 1	Villiar	s, R.	
			Sam	ples			d Analy	yses	L	og									
(feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm.) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	L	Lithologic Description							
Printer		X								SP-S	M ASPHALT; dr SILTY SAND, sand (medium micaceous, no	poorly graded; Medium Bro to fine), 30% silt, dense, n	own, 70 noist,	%- -	Start @ Acetate		e		
5	SB-5 -5	X		100	1315		0							Intelate	- Acetate sleeve				
10	SB-5			100	1320		0			sw	(medium to fir (sub-angular),	raded; Light brown, 85% sa ne), 10% silt, 5% gravel loose, moist, micaceous, r		11111					
11111	-10	X								SP-S	 sand (medium moist, micace 		overy,	T T	Acetate sleeve				
15	SB-5	X		100	1332		0			O,	- (coarse to fine moist, micace	graded; Light brown, 85% a), 15% silt, trace gravel, locus, no odor.	sand ose,	1					
Jala.														1111					
20-														1111					
a late														Lali					
15-								ķ						1111					
Total Par	0.00										_			1111					
														1					
30												-		-					

E A R T H 🕞 T E C H

Projec	ct Na	une		LAU	SD-E	VMS					Project N	lumber: 53306	Bore		SB-6			
Boreh	ole I	oca	ation	ı: W	ithin f	ormer U	ST area			No	rthing:	Easting:			Sheet 1 of	i		
Drilli	ng A	gen	cy:		EST							Driller: Alex	Chapm	ıan				
Drilli	ng E	quip	met	nt:	Truc	k mount	ed Geopi	robe			i i	Date Started: 1/25	2002	Total Depth (i	fect): 9.0			
Drilling Method: Direct Push Number of Samples: 2											per of 2 les:	Date Finished: 1/25	2002	Depth to Bedrock				
Drilli	ng Fl	uid:			Non	e				Borel	ole eter (in): 2	Depth to Water (feet): Drilling.	0		tatic: NA			
Comp	oletio	n Ir	ıfon	mation	n: Bac	kfilled w	ith bento	nite an	d capp	ed with	concrete	Elevation (feet MSL) ;						
												Logged By: L. Browne		Checked	By: Steve Williams	, R.		
			San	ples		Field	d Analy	yses	L	og								
(feet)	Number	Type	Blow Count	Percent Recovery	Тіте	FID (ppm) Sample/Background	PID (ppm) Sunple/Background	Additional Tests	Graphic	USCS or Rock Type	1	oithologic Description		Remarks				
11.11									.00		ASPHALT; di ARTIFICIAL I sand, silt, and	riveway FILL; Red brown, contains g d clay, compacted	ravel,		tart @ 0804			
5	6B-6 -5	X		100	0813		0		.0					Tetal				
Lilili		X		100					00					Lilili				
10-	SB-6 -9				0819		0		0		- planar feature	Four holes here, all refused		R	efusal			
1														11:11				
15									1					3				
-										1 10	2			-				
-														-				
=														3				
20-											7			=				
20-														-				
-														7				
25-														-				
25														=				
11														-				
-														-				

EARTH 🔵 T & C H

	372		-				_		-		enote Dog		Borehole			
	ct Na		-		SD-EV				_		Project Numb	0.0000	Number:	38-/		
	-	-		: N		bounda	ry			No	hing:	Easting:		Sheet 1 of 1		
	ing A		-		EST		N PLAN				D	riller: Alex	Chapman			
	Orilling Equipment: Truck mounted Geoprobe Number of 6												10	pth (feet):		
Sample										Samp	s: 0 D		/2002 Dej	pth to drock (feet):		
			100		None		-			Dian	er (in): 2 W	epth to rater (feet): Drilling. levation		Static: NA		
Com	pletio	n Ir	nform	natio	n: Bac	kfilled w	ith bento	nite and	d capp	ed wit	concrete	eet MSL):				
			2	ples	-	Piel	d Analy			og	T.	ogged By: L. Browne	Che	ecked By: Steve Williams, R		
(feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm)	PID (ppm) Sample/Background	Additional S	Graphic	USCS or Rock Type	Lithe	Remarks				
2 11 11 11 11 11 11 11 11 11 11 11 11 11	SB-7 -5 SB-7 -10			100	0742 0750	or o	0			SW	ASPHALT; drivew SILTY SAND; Me to fine), 30% silt, to fine), 30% silt, to fine), 25% silt, loose, mo	Duplicate sample SB-7-5-DUP taken Duplicate sample SB-7-10-DUP taken Duplicate sample SB-7-15-DUP taken				



Q1100	220	-		w - 2	unit sir	5				200	renote L	-	Par	hale				
Proje					SD-E				-		Project N	lumber: 53306	Bore	ber:	SB-8			
	hole l	-		i: C	larifier	at entru	ice to ba	ttery scr	vice a	irea Noi	rthing:	Easting:			Sheet	1	of	1
Drilli	ing A	gen	cy:		EST							Driller: Ale	x Chapm	-				
Drilli	ing E	quip	omer	nt:	Truc	k mount	ed Geopt	robe		Date Started: 1/2:	5/2002		(feet):		15.0			
Drilli	ing M	leth	od:		Dire	ct Push					5/2002	Depth Bedro	to ck (feet):					
Drilli	ng F	luid:			None	e				Boreh Diame	ole eter (in): 2	Depth to Water (feet): Drilling	g:		Static: N	A		
Com	pletic	on It	nfor	matio	n: Bac	kfilled w	ith bento	nite and	d capp	ed with	concrete	Elevation (feet MSL):						
Samples Field Analyses Log											Logged By: L. Browne		Check	ed By: S	teve V	Villiam	s, R.	
			San				1	yses	L	og								
Depth (feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	L	Lithologic Description						
10-1-1-1	SB-8 -5 -10 SB-8 -15	X			0840 0848		0			SP	SAND, poorly (medium to fil micaceous, n	r graded; Light brown, 90% sitt, loose, moist,	tetalatatatatatat historiata	Start @ 0830 Duplicate sample SB-8-5-DUP taken Duplicate sample SB-8-10-DUP taken				
220-														alebatatatatatatatatatatatata				



Proje	ct Na	me:		LAU	SD-EV	/MS					Project Number: 53306	Bore Nun	thole aber:	SB-9
Borel	ole I	oca	tion	W	estern	service b	ay			No	ning: Eostin	ıg:		Sheet 1 of 1
Drilli	ng A	geno	cy:		EST						Driller:	Alex Chapn	nan	
Drilli	ng E	Juip	men	t:	porta	ble GH-	40 Geopi	robe			Date Started:	1/24/2002	Total Depti	h (feet): 12.0
Drilli	ng M	etho	od:		Dire	ct Push				Numi	of 4 Date Finished:	1/24/2002	Depti	h to ock (feet):
Drilli	ng Fl	uíd:			Non	е				Boret Diam	Depth to Water (feet):	Drilling:		Static: NA
Com	pletio	n Ir	form	nation	: Bac	kfilled w	ith bento	nite an	d capp	ed with	concrete Elevation (feet MSL):			
											Logged By: L.	Browne	Check	ked By: Steve Williams, R
			Sam	ples			d Analy	/ses	L	og	14.			
Depth (feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Semple/Background	PID (ppm) Semple/Background	Additional Tests	Graphic	USCS or Rock Type	Lithologic Descri	ption		Remarks
F1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	SB-9 -0.5	X		100	1124		0			SM	CONCRETE; pad SILTY SAND; Medium brown, 7 to fine), 30% silt, trace gravel, d micaceous, no odor.	0% sand (media ense, moist,	um -	Start @ 1120 Sample SB-9-Physical taken for physical testing
5	SB-9 -7	X		100	1127		0			SW	SAND, well graded; Light brown (coarse to fine), 15% silt, trace moist, micaceous, no odor.	n, 85% sand gravel, loose,	- Tartata	
10	SB-9 -10 SB-9	X		0	1133 1139		0						111111	
15													distable	
Linia													11111	
20													111111	
1.1.1.1										3			1111	
25-													11111	
1.1.1													1.1	



										DU	renote L	og					
Proje	ct Na	ame	:	LAU	SD-E	VMS					Project N	lumber: 53306	Bore		SB-10		
Borel	nole I	Loc	ation	ı; W	estern	service t	ау			No	rthing:	Easting:			Sheet	1 of	1
Drilli	ng A	gen	су:		EST							Driller: Alex	Chapm	ian			
Drilli	ng E	quip	ome	nt:	porte	able GH-	40 Geop	robe				Date Started: 1/23	/2002	Total Depth	h (feet):	12.	0
Drilli	ng M	feth	od:		Dire	ct Push				Numi Samp	per of 4	Date Finished: 1/23	/2002	Depth Bedro	h to ock (feet):		
Drilli	ng Fl	luid	:		Non	е				Boret Diam	tole eter (in): 2	Depth to Water (feet): Drilling	1		Static; NA		
Comp	pletic	n li	nfon	matio	n: Bac	kfilled w	ith bento	nite an	d capp	ed with	concrete	Elevation (feet MSL):					
			0			THE . I	11.	200		735. T		Logged By: L. Browne		Check	ked By: Ste	ve Willia	ms, R
				ples		- 35	d Analy		L	og							
Depth (feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	L	ithologic Description			Ren	narks	
LITTI I	SB -10 -0.5	X		100	1346		0		s 6 6	sw	SAND, well go (medium to fir moist, micace	raded; Medium brown, 90% ne), 10% silt, trace gravel, (sand iense,		Start @ 13	43	
5-	SB -10 -7	X		100	1349		o			sw-	SAND, well g (coarse to fine micaceous, n	raded; Light brown, 95% sa a), 5% silt, trace gravel, loo o odor.	ind se, moi:	st,			
1111	SB -10 -10 -5B -10 -12	X		100	1356 1400		0			SP	(medium to fine no odor. SAND, well gr	graded; Medium brown, 95 ne), 5% silt, loose, moist, n raded; Yellow brown, 90% s e), 5% gravel, 5% silt, loose o odor.	icaceou sand	us,			_
15-1-1-1														11111111			
20-														Trivia.			
225														1111111			
30														11111			



										DO	rehole L	og						
Proje	ct Na	ıme	:	LAU	SD-E	VMS					Project N	(umber: 53306	Bore		SB-11			
Borch	iole I	Loca	ation	ı: W	estern/	service b	oay			No	rthing:	Easting:	lases.		Sheet	1	of	1
Drilli	ng A	gen	су:		EST							Driller: Alex	Chapm	an				
Drilli	ng E	quip	omei	nt:	port	able GH-	40 Geop	robe			7	Date Started: 1/23/	2002	Total Depth	(feet):		12.0	
Drilli	ng M	leth	od:		Dire	et Push				Num! Samp	per of 4 ples:	Date Finished: 1/23/	2002	Depth Bedro	to ck (feet);			
Drilli	ng Fl	luid			Non	e				Borel Diam	nole eter (in): 2	Depth to Water (feet): Drilling:			Static: NA	1		
Comp	pletic	n li	nfon	matio	n: Bac	kfilled w	ith beata	nite an	d capp	ped with	concrete	Elevation (feet MSL)						
									-			Logged By: L. Browne		Check	ed By: St	eve \	Villian	ıs, R
				ples		- 5	d Analy	yses	1	og								
Depth (feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional	Graphic	USCS or Rock Type	Ĭ.	ithologic Description			Re	mar	ks	
J. L. C. L. L.	SB -11 -0.5	X		100	1236		0			SM	CONCRETE; SILTY SAND; to fine), 25%; odor.	pad Medium brown, 70% sand silt, 5% gravel, moist, micad	(mediu	m -	Start @ 1	230		
5	SB -11 -7	X		100	1238		0		LL	SP	SAND, poorly (coarse to fine odor.	graded; Light brown, 80% s a), 20% silt, moist, micaceo	sand us, no	Telefolist.				
111	SB -11 -10 SB -11	X		100	1242		0_0			SW	(medium to fit odor. SAND, well gr	graded; Light brown, 90% s ne), 10% silt, moist, micace raded; Light brown, 70% sa ne), 20% gravel (angular to	ous, no					
15-	-12										subangular),	10% silt, moist, micaceous,	no odo	1.1				
Little																		
20-														trial and				
25														Tall al				
1.11.1														11010				
30																		



_	-				-	-					choic Dog		1		
Proje	ct Na	me		LAU	SD-E	VMS					Project Num	ber: 53306	Bore Num		SB-12
Bore	nole I	Loca	ation	ı: W	estern	service b	ay			No	hing:	Easting:			Sheet 1 of 1
Drilli	ng A	gen	cy:		EST						I	Oriller; Alex	Chapm	an	
Drilli	ng E	quip	mer	nt:	porte	able GH-	40 Geopi	robe			ı	Date Started: 1/24	/2002	Total Depth	(feet): 12.0
Drilli	ng M	leth	od:		Dire	ct Push				Num		Date Finished: 1/24	/2002	Depth Bedro	to ock (feet):
Drilli	ng Fl	luid			Non	e				Bore! Diam	ter (in): 2	Depth to Drilling Vater (feet):			Static: NA
Com	pletic	n II	nfon	matio	n: Bac	kfilled w	ith bento	nite an	d capp	ed wit	concrete E	Elevation feet MSL) :			
											1	logged By: L. Browne		Check	ed By: Steve Williams, I
			Sam	ples			d Analy	ses	L	og					
(feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sumple/Background	Additional Tests	Graphic	USCS or Rock Type	Lith	ologic Description			Remarks
C. Laft, T.	SB -12 -0.5	X		100	0650		0			SP-S	SILTY SAND, po sand (medium to micaceous, no oc	orly graded; Medium bro fine), 35% silt, dense, r	own, 65 noist,	% -	Start @ 0645 Sample SB-12-Physica taken for physical testin
5 1 1 1 1 1 1	SB -12 -7	X		100	0654		0			SVV	SAND, well grade (coarse to fine), s micaceous, no or	ed; Light brown, 95% sa 5% silt, trace gravel, loo dor.	ind se, moi:	st,	
10-	SB -12 -10 -12	X		100	0659 0704		0			SW SP-S	(medium to fine), moist, micaceous ISILTY SAND, po	orly graded; Medium br	dense, own, 60	%	
20-	-12									Separation of the second of th	sand (medium to	fine), 40% silt, dense, t	moist,	 	



Proje	ct Na	me		LAU	SD-E	VMS					Project N	fumber: 53306	Bore		SB-13
Borel	hole I	Loca	ation	ı: W	estern	service t	oay			No	rthing:	Easting:			Sheet I of I
Drilli	ng A	gen	cy:		EST							Driller: Alex	Chapm	เลก	
Drilli	ng E	quip	mer	nt:	porta	able GH-	40 Geop	robe				Date Started: 1/23	/2002	Total Depth	(feet): 12.0
Drilli	ng M	leth	od;		Dire	ct Push				Numi	per of 4	Date Finished: 1/23	/2002	-	to ck (feet):
Drilli	ng Fl	uid:			None	e				Borel		Depth to Water (feet): Drilling			Static: NA
Com	pletio	n Ir	ıfon	mation	n; Bac	kfilled w	ith bento	nite and	d capp	_	concrete	Elevation (feet MSL)			
												Logged By: L. Browne		Check	ed By: Steve Williams, R.
		5	San	ples		Field	d Analy	ses	L	og					
(feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	L	ithologic Description			Remarks
Letelala	SB -13 -0.5	X		100	1135		0		2 5 E	SM	SILTY SAND; to fine), 30%	pad Medium brown, 70% sand silt, moist, micaceous, no o	(mediu dor.	m 1 1 2	Start @ 1130
5-11111	SB -13 -7	X		100	1140		0		11 A	SP	SAND, poorly (medium to fir micaceous, n	graded; Light brown, 85% ne), 15% silt, loose, moist, o odor.	sand	the beliefe	
0-	SB -13 -10 SB -13	X		100	1142 1145		0			SP-S	(medium to fir micaceous, n SILTY SAND,	poorly graded; Medium bro	own, 65	%	
20	-12										odor.	% silt, dense, moist, micace		Triangularian da indiana da india	



										D	renoie L	og					
Proje	ct Na	me	(LAU	SD-E	VMS					Project N	umber: 53306	Boreh		SB-14		
Borel	iole l	Loc	atior	ı: W	estem/	service b	ay			N	rthing:	Easting:			Sheet	1 of	1
Drilli	ng A	gen	cy:		EST							Driller: Alex	Chapmai	n			
Drilli	ng E	qui	ome	nt:	Truc	k mount	ed Geopi	obe				Date Started: 1/28	/2002	Total Depth	(feet):	12.	0
Drilli	ng M	[eth	od:		Dire	ct Push				Sam		The Australian Control of the Control	/2002	Depth Bedro	to ck (feet):		
Drilli	ng Fl	uid			Non	e				Bore Dian	nole eter (in): 2	Depth to Water (feet): Drilling			Static: NA		
Com	pletic	n I	nfor	matio	n: Bac	kfilled w	ith bento	nite an	d capp	ed wi	concrete	Elevation (feet MSL) :					
	17	_	0									Logged By: L. Browne		Check	ed By: Ste	ve Williar	ns, R
			V.	ples			d Analy	yses	L	og							
Depth (feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Semple/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	L	ithologic Description			Ren	narks	
11111	SB -14 -0.5	X		100	0803		0		Î	SP-	sand (medium	pad poorly graded; Medium br to fine), 35% silt, tace gra ous, no odor.	own, 65% ivel,	5-	Start @ 07	759	
1		X		75	0805								*	111	Acetate si	eeve	
5-	SB -14	X		100	0808		0			sw	SAND, well gr (coarse to fine micaceous, n	raded; Medium brown, 75% a), 20% silt, 5% gravel, mo o odor.	sand st,	11111			
Litte	-7	X		100	0810				7,= 1	SP	 (medium to fir 	graded; Light brown, 85% ne), 15% silt, trace gravel, lous, no odor.	sand loose,	111	Acetate si	seve	
10-	SB -14 -10 SB -14	X		100	0816 0818		0		*								
T. I	-12	M												-			
15-											-			=			
4														3			
											-			=			
20-			M											=			
1														-			
-														=			
25														=			
25-														=			
1.1.1											-			1 1 3			
7														=			
30														+			



									DU	renoie L	ug					
ct Na	me		LAU	SD-E	VMS					Project N	Number: 53306			SB-15		
nole I	Loca	ation	ı: W	estem/	service b	oay			No	thing:	Easting:			Sheet	1 0	f /
ng A	gen	cy:		EST							Driller: Alex	c Chapm	an			
ng E	quip	mei	nt:	porta	able GH-	40 Geop	robe				Date Started: 1/24	/2002	Total Depth	(feet):	1	2.0
ng M	leth	od:		Dire	ct Push				Numi	er of 4	Date Finished: 1/24	/2002	Depth	1 10		
ng Fl	uid:			Non	e				Borel Diam	ole eter (in): 2	Depth to Water (feet): Drilling	,		-3	1	
pletic	n It	ifon	matio	n: Bac	kfilled w	ith bento	nite and	d capp			Elevation (feet MSL) :					
											Logged By: L. Browne		Check	ced By: St	ove Willi	ams, R
		San	ples		Field	1	yses	L	og		†					
Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	1	ithologic Description			Re	marks	
SB -15 -0.5	X		100	0912		0			SM	to fine), 40%	; Medium brown, 60% sand silt, trace gravel, dense, me	(mediu pist,	/- m	Start @ 0	910	
SB -15 -7	X		100	0914		0			ML	 (medium to fi 	ne), trace wood fragments,	d dense,				
SB -15 -10 SB	X		100	0918 0925		0		Ш За	SP	micaceous, n	ne), 15% silt, loose, moist, o odor. raded; Light brown, 85% sa	and _				
-12										_ (coarse to fin	e), 15% silt, trace gravel, lo	ose,	Thirt			
													Litrili			
													1111111			
													11:1:13			
	ng A ng E ng M ng Fi pletic SB -15 -7 SB -15 -7 SB -15 -15	nole Locaring Agening Agening Equipming Method in Fluid: SB -15 -0.5 SB -15 -7 SB -15 -7 SB -15 -7	ng Agency: ng Equipmer ng Method: ng Fluid: pletion Inform Sam 19.45 -15 -0.5 SB -15 -10 SB -15 -10 SB -15	nole Location: Wang Agency: ng Agency: ng Equipment: ng Method: ng Fluid: pletion Information Samples Jady Agency: 100 SB 15 -0.5 100 SB -15 -15 -10 SB -	nole Location: Western ng Agency: EST ng Equipment: porta ng Method: Dire ng Fluid: Non pletion Information: Bac Samples Samples Samples 100 0912 100 0914 100 0918 100 0925	nole Location: Western service in Agency: EST Ing Agency: EST Ing Equipment: portable GH- Ing Method: Direct Push Ing Fluid: None Samples Fiel	nole Location: Western service bay Ing Agency: EST Ing Equipment: portable GH-40 Geop Ing Method: Direct Push Ing Fluid: None Pletion Information: Backfilled with bento Samples Field Analy Language Plant (und) QI (und	nole Location: Western service bay Ing Agency: EST Ing Equipment: portable GH-40 Geoprobe Ing Method: Direct Push Ing Fluid: None Pletion Information: Backfilled with bentonite and Samples Field Analyses July July	nole Location: Western service bay Ing Agency: EST Ing Equipment: portable GH-40 Geoprobe Ing Method: Direct Push Ing Fluid: None Pletion Information: Backfilled with bentonite and capp Samples Field Analyses L (mdd) (mdd) (mdd) (mdd) SB	nole Location: Western service bay Non Transport Rest Ing Agency: EST Ing Equipment: portable GH-40 Geoprobe Ing Method: Direct Push Ing Fluid: None Borch Diama Pletion Information: Backfilled with bentonite and capped with Samples Field Analyses Log July Ju	ret Name: LAUSD-EVMS Role Location: Western service bay Roll Location: Project No. Roll Location: Roll Location: Project No. Roll Location: Roll Location: Roll Location: Roll Location of Samples: A Samples:	to Name: LAUSD-EVMS Role Location: Western service bay Northing: Easting: Role Location: Western service bay Northing: Easting: Driller: Alexanger Agency: EST Driller: Alexanger Agency: Depth to Date Started: 1/24 Rog Equipment: portable GH-40 Geoprobe Rog Method: Direct Push Rog Fluid: None Borehole Diameter (in): 2 Depth to Water (feet): Drilling Depth to Mater (feet	to Name: LAUSD-EVMS Project Number: 53306 Bore Num	to Name: LAUSD-EVMS Project Number: 53306 Borchole Number: note Location: Western service bay Northing: Easting:	to Name: LAUSD-EVMS Project Number: 53306 Rechole Number: SB-15 Total Location: Western service bay Northing: Easting: Sheet She	to Name: LAUSD-EVMS Project Number: 53306 Reproduct Number: Alex Chapman Reproduct Number: 1/24/2002 Reproduct Number: 1/24

EARTH 🖨 TECH

I Na	me:		LAU	SD-EV	/MS					Project Number: 53306	Bore Num		SB-16
ole I	oca	tion	: W	estern	service b	ay			No	ing: Easting:			Sheet I of I
ng A	gen	cy:		EST						Driller:	Alex Chapm	nan	
ng E	quip	men	ıt:	porta	able GH-	40 Geopi	robe			Date Started:	1/24/2002	Total Depth	(feet): 12.0
ng M	etho	od:		Dire	ct Push						1/24/2002	Denth	
ng Fl	uid:			None	e				Borel	r (in): 2 Depth to Water (feet): Drill	ling:	-	Static: NA
oletio	n In	form	natio	n: Bac	kfilled w	ith bento	nite and	d capp	ed with	Claustina			
										Logged By: L. Brow	/ne	Checke	ed By: Steve Williams, R
	5	Sam	ples		Field		ses	L	og				
Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	Lithologic Description	n		Remarks
SB -16 -0.5	X		100	0835		0			SM	SILTY SAND; Medium brown, 60% s to fine), 35% silt, 5% gravel, dense, r	and (mediu moist,	ım –	Start @ 0833 Soil sample SB-16-Physical taken for physical testing.
\$B -16 -7	100 0840 0								ML	(medium to fine), trace gravel, dense	sand , moist,	111111111	
SB -16 -10 -16 -16 -12	X		100	0845 0850		0		 	SP	(medium to fine), 15% silt, loose, mo micaceous, no odor. SAND, well graded; Light brown, 90% (coarse to fine), 10% silt, trace grave	ist, 6 sand		
										Alloist, micaceous, no outr.			
	ng A ng Ec SB S-16 -7 SB S-16 -10 SB	ng Agening Equip ng Methon g Fluid: oletion Ir oletion	ng Agency: ng Equipmer ng Method: ng Fluid: pletion Inform Sam JAMe And Agency: ng Equipmer Sam Sam JAMe And Agency: ng Method: Sam JAMe And Agency: Sam JAM	ng Agency: ng Equipment: ng Method: ng Fluid: oletion Information Samples John Count Method: 100 SB 100 SB 100 100 SB 100 100 SB 100 100	ng Agency: EST ng Equipment: porta ng Method: Dire ng Fluid: None Samples Samples Samples 100 0835 100 0840 -7 100 0840 -16 100 0850 -16 100 0850	ng Agency: EST ng Equipment: portable GH- ng Method: Direct Push ng Fluid: None Samples Field Samples (udd) Lill (bd) SB 100 0840 -7 SB 100 0845 -16 -10 -10 -16 -10 -16 -10 -16 -10 -16 -10 -16 -10 -16 -10 -16 -10 -16 -10 -16 -10 -16 -10 -16 -10 -16 -10 -10 -16 -10 -16 -10 -10 -16 -10 -10 -16 -10 -10 -16 -10 -16 -10 -10 -16 -10 -10 -16 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10	ng Agency: EST ng Equipment: portable GH-40 Geopting Method: Direct Push ng Fluid: None Samples Field Analy Lill (bdd) (1 a) SB 100 0845 0 100 0850 0 SB 100 0850 0	ng Agency: EST ng Equipment: portable GH-40 Geoprobe ng Method: Direct Push ng Fluid: None Samples Field Analyses Line (bluid) (bluid) (clud) (clud) (clud) (clud) Samples (clud)	ng Agency: EST ng Equipment: portable GH-40 Geoprobe ng Method: Direct Push ng Fluid: None pletion Information: Backfilled with bentonite and capp Samples Field Analyses L Gudd) (mdd) (mdd) (mdd) (mdd) (mdd) (mdd) (mdd) Samples (mdd) (md) (m	ng Agency: EST ng Equipment: portable GH-40 Geoprobe ng Method: Direct Push Samples ng Fluid: None Borehole Diamete pletion Information: Backfilled with bentonite and capped with control of the pletion Information: Backfilled with bentonite and capped with control of the pletion Information: Backfilled with bentonite and capped with control of the pletion Information: Backfilled with bentonite and capped with control of the pletion Information: Backfilled with bentonite and capped with control of the pletion Information: Backfilled with bentonite and capped with control of the pletion Information: Backfilled with bentonite and capped with control of the pletion Information: Backfilled with bentonite and capped with control of the pletion Information: Backfilled with bentonite and capped with control of the pletion Information: Backfilled with bentonite and capped with control of the pletion Information: Backfilled with bentonite and capped with control of the pletion Information Information: Backfilled with bentonite and capped with control of the pletion Information Information: Backfilled with bentonite and capped with control of the pletion Information Info	Samples Field Analyses Lithologic Description	Driller: Alex Chapmeng Agency: EST Driller: Alex Chapmeng Agency: Alex Chapmeng Agency: Depth to Driller: Drilling: Depth to Dep	Delication Western service bay Northing: Easting:



										DU	renoie L	og				
Proje	ct Na	ıme		LAU	SD-E	VMS					Project N	Number: 53306	Bore Num		SB-17	
Borel	hole l	Loc	atior	ı: W	estern	service b	ay			No	rthing:	Easting:			Sheet 1	of 1
Drilli	ng A	gen	су:		EST							Driller: Alex	Chapm	an		
Drilli	ng E	qui	mei	nt:	porta	able GH-	40 Geop	robe				Date Started: 1/24	/2002	Total Depth	(feet):	12.0
Drilli	ng M	leth	od:		Dire	ct Push				Numi	les: 4		/2002	Depth Bedro	to ock (feet):	
Drilli	ng F	luid	:		Non	e				Borel Diam	ole eter (in): 2	Depth to Water (feet): Drilling.			Static; NA	
Com	pletic	n I	nfon	matio	n: Bac	kfilled w	ith bento	nite an	d capp	ed with	concrete	Elevation (feet MSL);				
_								-				Logged By: L. Browne		Check	ed By: Steve W	illiams, l
		3		ples		7	d Analy	yses	L	og						
Depth (feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	I	ithologic Description			Remark	S
11111	SB -17 -0.5	X		100	0759		0			SM	to fine), 30%	pad ; Medium brown, 65% sand silt, 5% subangular gravel, eous, no odor.	(mediu dense,	<u>\$</u>	Start @ 0755	
5-11-11-1	SB -17 -7	X		100	0803		0			sw	- (coarse to fin	raded; Light brown, 70% sa e), 20% subangular gravel, micaceous, no odor.	nd 10% sill	Tarrella Let		
10-	SB -17 -10 SB -17	X		100	0810 0812		0			sw	- (coarse to fin	raded; Light brown, 90% sa e), 5% subangular gravel, 5 micaceous, no odor.	nd % silt,	district.		
15	-12													11111		
1111														Lilia		
20-											-			ليليل		
Let Let														1111		
25-														111		
Chilli														1 1		
-														=		



											choic Lo	6						
Proje	ct Na	une	:	LAU	ISD-E	VMS					Project No	umber: 53306	Bore	hole ber:	SB-18			
Borel	iole I	Loc	ation	ı; W	estern/	service b	ay			No	thing:	Easting:			Shect	. 1	of	I
Drilli	ng A	gen	cy:		EST							Driller: Alex	c Chapm	ian				
Drilli	ng E	quip	omer	nt:	porte	able GH-	40 Geop	robe				Date Started: 1/24	/2002	Total Depth	(feet):		12.	0
Drilli	ng M	leth	od:		Dire	ct Push				Num	per of 4 les:	Date Finished: 1/24	/2002	Depth				
Drilli	ng Fl	uid			Non	e				Bore Dian	ole eter (in): 2	Depth to Water (feet): Drilling	:		Static: N	A		
Com	pletio	n lı	nfor	mation	n: Bac	kfilled w	ith bento	nite an	d capp	ed wit	concrete	Elevation (feet MSL):						
												Logged By: L. Browne		Check	ced By: S	tove	Willia	ms, R
			Sam	ples		E-50	d Analy	yses	L	og								
Depth (feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	Li	thologic Description			R	ema	rks	
Lack at the	SB -18 -0.5	X		100	0717		0			SM	CONCRETE; silTY SAND; to fine), 40% s micaceous, no	Medium brown, 60% sand	l (mediu oist,	im -	Start @	0713		
5 1 1 1 1 1 1 1	SB -18 -7	X		100	0724		0			sw	SAND, well gra- (coarse to fine moist, micaced	aded; Light brown, 85% sa), 15% silt, trace gravel, lo ous, no odor.	and lose,	Tilititi				
10-	SB -18 -10 SB -18	X		100	0731 0736		0			SP-S	(medium to fin odor. SILTY SAND,	graded; Light brown, 90% e), 10% silt, moist, micace poorly graded; Medium br to fine), 40% silt, dense, t	own, 60	1-1				
20-	-12										micaceous, no	odor.						



Proje	ct N	ame		LAU	ISD-EV	/MS					Project N	umber: 53306	Boret		B-19			
Bore	hole	Loca	ation	: W	/estern	service b	ay			No	rthing:	Easting:		S	Sheet	1	of	1
Drilli	ing A	gen	cy:		EST							Driller: Alex C	Chapma	ın				
Drilli	ing E	quip	mer	ıt:	porta	ble GH-	40 Geop	robe				Date Started: 1/28/2	002	Total Depth (fe	et):		12.0	
Drilli	ing N	/leth	od:		Direc	ct Push				Num	per of 4 les:	Date Finished: 1/28/2	002	Depth to Bedrock (
Drilli	ing F	luid			None					Borel	ole eter (in): 2	Depth to Water (feet): Drilling:			nic: N			
Com	pleti	on la	for	natio	n: Bacl	cfilled w	ith bento	mite an	d capp	-	concrete	Elevation (feet MSL):						
												Logged By: L. Browne		Checked I	By: S	iteve V	Villiam	s, R.
			Sam	ples		Field	d Analy	yses	L	og		1						
(feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample-Background	Additional Tests	Graphic	USCS or Rock Type	L	ithologic Description		ŀ	R	emar.	ks	
6.1.3	SB -19 -0.5	IA		50	0849		0	F		SM	CONCRETE; SILTY SAND; to fine), 30% s moist, micace	Medium brown, 70% sand (r silt, trace gravel, poor recove	mediur ry,	_/- Sta	irt @	0847		
1111		X		50	0852						- moist, meace	eda, no odol.		Ace	etate :	sleeve		
5	SB -19 -7	X		0	1217		0								-19-7	not re	cover	ed
10-		A		5	0900									-		sleeve O not r		red
1	-19 -10	X		25	0912		0			SW	SAND, well gr (coarse to fine moist, micace	raded; Light brown, 85% sand a), 15% silt, trace gravel, loos	d se,	initi	ially	10120		122
1 . I . I	-19 -12	1			0012						SAND, poorly	graded; Light brown, 85% sane), 15% silt, poor recovery, r	and moist,	E				
15-											Moved 18" We recovery.	est and redrilled hole due to p	poor	Tale				
Lili														To the second				
20-														T. I.				
100														1				
5-														1				
1.1.1														1				
1														=				



			_		-				_	20	I CHOIC LA	<u> </u>	n	61		-	_	
Proje	-	-			SD-E						Project N	umber: 53306	Bore Num	nole ber:	SB-20)		
Borch	iole I	Loca	ation	: W	'estern	service b	ay			Noi	rthing:	Easting:			Shee	1	of	1
Drilli	ng A	gen	су:		EST							Driller: Alex	Chapn	-				
Drilli	ng E	quip	mer	nt:	porta	able GH-	40 Geop	robe				Date Started: 1/23	/2002		(feet)		12.0)
Drilli	ng M	leth	od:		Dire	ct Push				Numt Samp	les:		/2002	Depth Bedro	to ock (feet)):		
Drilli	ng Fl	uid			None	е				Borch	ole eter (in): 2	Depth to Water (feet): Drilling			Static:	NA		
Comp	pletio	n I	nform	mation	n: Bac	kfilled w	ith bento	nite an	d capp	ed with	concrete	Elevation (feet MSL) :						
												Logged By: L. Browne		Check	ced By:	Steve	Willian	ıs, R.
		1	Sam	ples			d Analy	scs	L	og								
Depth (feet)	Number	Type	Blow Count	Percent Recovery	Тіте	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	L	ithologic Description			1	Rema	rks	
diffile	SB -20 -0.5	X		100	1050		0			SM	SILTY SAND to fine), 40% a micaceous, n	Medium brown, 60% sand silt, trace gravel, dense, mo	(mediu	im –	Start @	1045	5	
5-1-1-1-1	SB -20 -7	X		100	1055		0			sw	SAND, well g subangular gr odor.	raded; Light brown, 90% sa avel, trace silt, moist, mica	ind, 10% ceous,	6 no -				
-	SB -20 -10 SB -20	X		100	1101 1107		0			sw	SAND, well g	raded; Light brown, 85% sa Igular gravel, dense, moist, o odor.	ind, 10%	6				
-	-12													Liliti				
15 -														111111				
											F 3			Lilili				
25														11111				
30														A LITTLE				



Ртоје	ct N	ame:		LAU	SD-E	/MS					Project Number: 53306		hale ber:	SB-21
Borel	hole !	Loca	ation	: So	wihem	service	bay			No	ng: Easting:			Sheet 1 of 1
Drilli	ing A	gen	су:		EST						Driller:	Alex Chapm	nan	
Drilli	ing E	quip	men	ıt:	Truc	k mounte	ed and po	ortable	GH-40	Geopi	Date Started:	1/25/2002	Total Depth	(feet): 3.5
Drilli	ing N	1eth	od:		Dire	ct Push				Numb		1/25/2002	Depth Bedroo	to ck (feet):
Drilli	ing F	luid:			None	e				Boreh	(in): 2 Depth to Water (feet): Dri	illing:		Static: NA
Com	pletic	on le	form	nation	: Bac	kfilled w	ith bento	nite an	d capp		Playettan			
											Logged By: L. Brow	wne	Checke	ed By: Steve Williams, R.
		5	Sam	ples		Field	d Analy	ses	L	og		- 1		
(feet)	Number	SD 1035 0 CONCRETE; pad										n		Remarks
1.1.1.1	SB -21 -0.5	X		100	1035		0			SM	CONCRETE; pad SILTY SAND; Medium brown, 70% to fine), 30% silt, trace gravel, dense micaceous, no odor.	sand (coarse e, moist,	e - :	Start @ 1032
5 - 10 - 15 - 15 - 120 - 1											CONCRETE; obstruction		= ;	Refusal @ 3.5° w/ GH-40 Switch to truck, also get refusal. Concrete in sample tip.



The state of				27.30	220.5	No.			_	20	Tenore Ex		D	hala	
Proje			_	-	SD-EV						Project N	umber: 53306	Bore Num		SB-21A
Borel	ole i	Loca	ation	: So	outhern	service	bay, 36"	NW of	SB-2	1 No	rthing:	Easting:			Sheet 1 of 1
Drilli	ng A	gen	су:		EST							Driller: Alex	Chapm	an	
Drilli	ng E	quip	me	nt:	Truc	k mounte	ed Geopi	robe				Date Started: 1/28/	2002	Total Depth	12.0
Drilli	ng M	leth	od:		Dire	ct Push				Samp		Date Finished: 1/28/	2002	Depth Bedro	to ock (feet):
Drilli	ng Fl	luid			None	е				Borel Diam	nole eter (in): 2	Depth to Water (feet): Drilling:			Static: NA
Com	oletic	on I	nfon	matio	n: Bac	kfilled w	ith bento	nite an	d cap	ed wit	concrete	Elevation (feet MSL);			
												Logged By: L. Browne		Check	ted By: Steve Williams, R
		1	San	ples			d Analy	ses	1.	og					
(feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	L	ithologic Description			Remarks
5										SM	to fine), 30% :	pad : Medium brown, 70% sand silt, trace gravel, dense, mo o odor. (FROM SB-21)	\cdot	Start @ 1333	
5-	SB -21 -7	X		100	1336		0			SM	SILTY SAND; fine), 20% silt micaceous, n	earse to	111	Moved SB-21 36" N-W from original sample location, did not encounter concrete obstruction.	
-	SB -21 -10 SB -21 -12	X		100	1338 1340		0			sw	SAND, well gr (coarse to fine micaceous, no	raded; Light brown, 90% sa e), 5% gravel, 5%silt, loose, o odor.	nd moist,	la triat	
										3	-			7	
20														1	
-														-	
-										1				-	
20-										1.3				7	
											Ē			-	
1111					(1)									1	
05											Ē			-	
25											2			-	
-										1				=	
-											7				
F 06														=	<u> </u>



Proje	ct Na	me		LAU	SD-E	VMS					Project Number: 53306		hole ber:	SB-22		
Borch	ole I	oca	ation	: So	outhern	service l	bay			No	sing: Easting			Sheet	of of	1
Drilli	ng A	gen	су:		EST						Driller:	Alex Chapm	an	1		
Drilli	ng E	quip	mei	ıt:	Truc	k mounte	ed Geopr	obe			Date Started:	1/25/2002	Total Depth	(feet):	12.0)
Drilli	ng M	leth	od:		Dire	ct Push				Num		1/28/2002		to ck (feet):		
Drilli	ng Fl	uid:			None	e				Borel Dian	Depth to Water (feet):	Drilling:		Static: NA		
Comp	pletio	n Ir	nfor	nation	n: Back	kfilled w	ith bento	nite an	d capp	ed wit	concrete Elevation (feet MSL):					
											Logged By: L. B	rowne	Check	ed By: Steve	Willian	ns, R.(
			Sam	ples			d Analy	ses	L	og						
(feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	Lithologic Descrip	tion		Rema	rks	
Hilili	SB -22 -0.5	X		100	1017		0		.0		CONCRETE; pad ARTIFICIAL FILL; Dark brown, ve graded, moist, no odor.	ey dense, well	<u></u>	Start @ 101	5	
5-	SB -22 -7	X		100	1023		a		<u>. O</u>	SP-S	SILTY SAND, poorly graded; Med sand (medium to fine), 30% silt, o micaceous, no odor.	lium brown, 70 lense, moist,	- 1% - -			
-	SB -22 -10 -58 -22 -12	X		100	1028 1315		0			SP-S	SILTY SAND, poorly graded; Mer sand (coarse to fine), 35% silt, m no odor.	fium brown, 65 bist, micaceou	s, -	Sample SB- collected on	22-12 1/28	
15-11-1													Title Life			
20-																
20-													1111			
111111													i i i i i i i i			



Proje	ct Na	ime		LAU	SD-E	VMS					Project N	Number: 53306	Bore		SB-23
Borel	iole I	Loca	ation	ı: So	outherr	service	bay			No	rthing:	Easting:		2323	Sheet 1 of 1
Drilli	ng A	gen	cy:		EST							Driller: Alex	Chapm	an	
Drilli	ng E	quip	ome	nt:	ports	able GH-	40 Geop	robe				Date Started: 1/25	/2002	Total Depth	n (feet): 12.0
Drilli	ng M	feth	od:		Dire	ct Push				Numi	per of 4	Date Finished: 1/25	/2002		n to ock (feet):
Drilli	ng Fl	uid:			Non	е				Borel	nole eter (in): 2	Depth to Water (feet): Drilling.			Static: NA
Comp	pletic	n Ir	nfon	matio	n: Bac	kfilled w	ith bento	mite and	d capp	ed with	concrete	Elevation (feet MSL)			
												Logged By: L. Browne		Check	ced By: Steve Williams, R.
			San	ples			d Analy	yses	L	og				T	
(feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	I	ithologic Description			Remarks
-	SB	V			1232		0		ō V		CONCRETE;	pad FILL; Dark brown, vey dens	e well		Start @ 1228
-	-23 -0.5	Δ		100					o ()		graded, mois	t, no odor.	o, 11011	3	
-									0					3	
5-	H,								o ()	SP	SAND poorly	y graded; Medium brown, 75	io4 can	-	
=	SB -23	X		100	1237		0				 (medium to fi micaceous, n 	ne), 25% silt, loose, moist,	70 00110	=	
-	-7														
-														=	
10-	SB -23 -10	V		10	1244		0							=	
	SB -23	\triangle	-		1255	-	0		452					-	
1.1	-12										Ē			=	
15-														-	
15-														-	
-			1											=	
-														=	
20														=	
														1	
-														=	
25														-	
25											_			=	
1														=	
30					1									-	



Proje	ct Na	ume:		LAU	SD-EV	VMS	-	-	_	-	Project Nu		Bore		SB-24
Borel	hole I	Loca	ation	: Sc	outhern	service	bay			No	thing:	Easting:		DATE.	Sheet 1 of 1
Drilli	ng A	gen	cy;		EST							Driller: Alex	Chapm	an	
Drilli	ng E	quip	mer	nt;	porte	able GH-	40 Geopi	robe				Date Started: 1/24	/2002	Total	(feet): 12.0
Drilli	ng M	leth	od:		Dire	ct Push				Numi	per of 4	Date Finished: 1/24	/2002		to ck (feet):
Drilli	ng Fl	uid:			None	e				Darel		Depth to Water (feet): Drilling.		1244	Static: NA
Com	pletio	n Ir	forr	nation	n: Baci	kfilled w	ith hento	nite an	d capp		concrete	Elevation (feet MSL)			
												Logged By: L. Browne		Check	ed By: Steve Williams, R.
		5	Sam	ples			d Analy	/ses	L	og					
Depth (feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	Li	thologic Description			Remarks
10 15 20	SB -24 -7 SB -24 -12	XXX		100	1335 1340 1342	ST.	0 0		A O O O O	4 1	SAND, poorly (medium to fin moist, micaced	ILL; Dark brown, vey dense no odor. graded; Light brown, 85% e), 15% silt, trace gravel, lous, no odor. poorly graded; Medium broto fine), 35% silt, dense, r	sand cose,	The Late Late Late Late Late	Start @ 1324



										DU	renote L	ug						
Proje	ct Na	une		LAU	SD-E	VMS					Project N	jumber: 53306	Bore		SB-25			
Borel	nole I	Luca	ation	: Sc	outhern	service	bay			No	rthing:	Easting:			Sheet	1	of	1
Drilli	ng A	gen	cy:		EST							Driller: Ale	x Chapm	an				
Drilli	ng E	quip	mer	ıt:	Truc	k mount	ed and po	ortable	GH-40	Geop	robes	Date Started: 1/24	1/2002	Total Depth	(feet):		12.0	
Drilli	ng M	leth	od:		Dire	ct Push				Numi	per of 4	Date Finished: 1/24	1/2002	Depth				
Drilli	ng Fl	uid:			Non	e				Borel Diam	nole eter (in): 2	Depth to Water (feet): Drilling	ŗ.		Static: N			
Com	pletic	n Ir	nform	nation	n: Bac	kfilled w	ith bento	nite an	d capp	ed with	n concrete	Elevation (feet MSL)						
												Logged By: L. Browne		Check	ed By: S	Steve	William	s, R.
			Sam	ples		Field	d Analy	yses	L	og								
Depth (feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	L	ithologic Description			R	ema	rks	
di Lida	SB -25 -0.5	X		100	1240		0		. 0		CONCRETE; ARTIFICIAL F graded, moist	ILL; Dark brown, vey dens	Lili	Start @			H-40	
-									0						(asphalt), swi	tched t	0
5-	SB -25 -7	X		100	1304		0			SP	SAND, poorly (medium to fir micaceous, n	graded; Light brown, 85% ne), 15% silt, loose, moist, o odor.	Halifi					
10-	SB -25 -10 -5B	X		100	1306		0			SW SP-S	micaceous, n	raded; Light brown, 70% sa e), 25% silt, 5% gravel, der o odor.	nse, moi:	1-				
1111	-25 -12										SILTY SAND sand (coarse micaceous, n	, poorly graded; Medium by to fine), 35% silt, loose, m o odor.	own, 65°	% <u> -</u> -				
15-											-			-				
=														=				
-														-				
20-														=				
=											5			=				
-								10						7				
											-							
25-														-				
-											=			1				
=														4				
30										4	=			=				



Projec	ct Na	me:		LAU	SD-EV	/MS					Project N	umber: 53306	Bore Num		SB-2	6		
Borch	ole L	oca	ation	: So	uthern	service	bay			No	thing:	Easting:			Shee	et 1	of	i
Drilli	ng A	gen	cy:		EST							Driller: Alex	Chapm	an				
Drilli	ng Ec	quip	men	it:	porta	ble GH-	40 Geopi	robe				Date Started: 1/24/	2002	Total Depth	(feet):		12.0	
Drilli	ng M	eth	od:		Direc	et Push				Numi	per of 4	Date Finished: 1/24/	2002	Depth Bedro	to ck (fee	t):		
Drilli	ng Fl	uid:			None	3				Borel	ole eter (in): 2	Depth to Water (feet): Drilling:			Static:	NA		
Com	pletio	n lı	nforr	nation	ı: Bacı	kfilled w	ith bento	nite and	d capp		concrete	Elevation (feet MSL):						
												Logged By: L. Browne		Check	ed By:	Steve 1	Willian	is, R.
			Sam	ples		Field	d Analy	ses	L	og								
(fact)	-26 X 100									USCS or Rock Type	1.	ithologic Description			7 18	Remai	rks	
1	SB	7			1205				00		CONCRETE;	pad FILL; Dark brown, vey dense	e well	_/-	Start (1202		
1.0	-0.5	X		100					. 0		graded, mois	t, no odor.	-1 11011	7				
5-									0					+				
5-									. 0	SP	SAND poorly	graded; Light brown, 80%:	eand	_2				
	SB -26 -7	X		100	1209		0		4		(medium to fi	ne), 20% silt, loose, moist,	build	=				
1	-7								7					=				
									-0					=				
10-	SB -26	V		75	1214		0			SP	- (medium to fi	graded; Light brown, 70% ne), 30% silt, loose, moist,	sand	=				
-	-10 SB -26	1		7.5	1221	-	0		2-600		micaceous, n	o odor.		-1	-			_
1	-12										7			-				
15-))	1 8									-				
											-			-				
3																		
									W					3				
20-														17.				
1														=				
3											E			3				
25-														-				
25														-				
1														-				
3						1								-				



Don't		204			OI> ***	73.40			-	50	Desired	<u> </u>	Bore	hole	nr.			_
Proje		-	-	_	SD-E			9.11	_	150	Project N		Num		SB-27	_	- 70	_
		-	-	: Ci		inside n	orthern b	uilding		No	rthing:	Easting:			Shee	t 1	of	1
Drilli			100	V	EST	100.77	ie wor		-				Chapm	Total				
Drilli	3.5			nt:		able GH-	40 Geop	robe		Nhami	ber of 2		/2002	Depth (10.0	
Drilli		-	-	_	-7.020	ct Push				Samp	oles:	Desit to	/2002	Bedrock	k (feet)			
Drilli				. 47	Non		9242 MIC 4			Diam	eter (in): 2	Water (feet): Drilling.			static:	NA		
Com	pletio	n li	nfon	mation	n: Bac	klilled w	ith bento	nite and	capp	ed with	h concrete	(feet MSL)		la .		25.7764		0.044
		-	Sam	ples		Fiel	d Analy	vses	L	og		Logged By: L. Browne	_	Checke	а Ву:	Steve \	William	s, R.
Depth (feet)	Number	Type	unt	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	i	ithologic Description			1	Remar	·ks	
T. F.	SB -27 -0.5	X		100	1426		0				sand (mediur	, poorly graded; Medium bro n to fine), 35% silt, moist,	/- S	Start @	1424			
11113	SB -27	X		100	1429		0		(8.2.5)	SP-S	 SILTY SAND sand (mediur 	, poorly graded; Medium bro n to fine), 30% silt, trace gra eous, no odor.)% <u> </u>					
5-	-27 -5	X		50					7.	SP	SAND, poorly — (coarse to fin — micaceous, re	y graded; Light brown, 80% e), 20% silt, trace gravel, m to odor.	11111					
10-	SB -27	X		100	1438		0							11111				
Call	-10													11.1.				
Lali											Halla			=				
15														1111				
Lilia														1111				
20											7			1111				
1.1.1																		
25											0.1			1111				
1111																		
											-							
30														-				

E A R T H 🔵 T E C H

Proje	ot Ma	mac		LATI	SD-EV	/AAR	-	-	-		Project N		Borel	hole	SD 40
	_	-	_		_		house		ales o	11			Numb		SB-28
	-	-		. ()	-	sump in	oattery	scrvice	arça	No	rthing:	Easting:	-		Sheet 1 of 1
Drilli		-	-		EST				a.	0.0			c Chapma	Total	
Drilli Drilli				NC:		k mounte	ed and po	ortable	GH-4	1			/2002	Depth	(feet): 7.0
Drilli		-	-	-		ct Push		_		Samp	oles: 2	D	/2002	Bedro	to ck (feet):
Drilli					None			N. EV		Diam	eter (in): 2	Water (feet): Drilling	;		Static: NA
Com	pietro	n Ir	itom	nation	i: Bac	kfilled w	ith bento	nite and	d cap	ped wit	h concrete	(feet MSL):	_	cn 1	In a new
	-	-	Sam	ples		Field	d Analy	Jees.	1	og		Logged By: L. Browne		Check	ed By: Steve Williams, R
Depth (feet)	Number	Type	ınt	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	1.	ithologic Description			Remarks
1111111	SB -28 -2	X		100	1354		0			SM	CONCRETE, SILTY SAND; to fine), 35%	pad Medium brown, 65% sand silt, moist, micaceous, no d	l (mediur odor.	5 1 1 1 1 1	Start @ 1351
5 1 1 1	SB -28 -7	X		100	1422		0			SM	SILTY SAND to fine), 30% no odor.	Medium brown, 70% sand silt, trace gravel, moist, mid	(mediur caceous,	1	Refusal @ 5' with GH-40 switched to truck mounterig.
10-														. Little	
15														Literal L	
15 11 11														11111	
20														11111	
25														trivial eleter	
30														111111	



										DU	lole Log		
Proje	ct Na	ame		LAU	SD-E	VMS					Project Number: 53306	Boreho	ole SB-29
Borel	hole l	Loc	ation	: В	asemer	ıt adjacei	nt to com	pressor	r drain	age M	: Easting:		Sheet 1 of 1
Drilli	ing A	gen	cy:		Earti	h Tech					Driller: Lav	wrence Brov	wne
Drilli	ng E	quip	omen	ıt:	Han	d Auger						1/2002	Total Depth (feet): 7.0
Drilli	ng M	1eth	od:		Han	d Auger				Nun Sam	Date Fiftished: 2/1	/2002 I	Depth to Bedrock (feet):
Drilli	ng Fl	luid	:		Non	e				Bore Dian		ig:	Static: NA
Com	pletic	on I	nform	natio	n: Bac	kfilled w	ith bento	nite an	d capp	ed wi	rete Elevation (feet MSL):		
_		_	C	ples		Fial	d Analy	1000		40	Logged By: L. Browne	•	Checked By: Steve Williams, R
Depth (feet)	Number	Type	nut	Percent Recovery	Time	FID (ppm)	PID (ppm)	Additional Tests	Graphic	USCS or Rock Type	Lithologic Description		Remarks
	SB			A.		S	· ·		200		DNCRETE; 5" slab over 1/4" coated p	paper over	_ Start @ 0900
10 15 20 25 -	-29 -2 SB -29 -7			100	1015		0				ND, well graded; Medium brown, 85 parse to fine), 15% silt, trace gravel, I pist, micaceous, no odor.	% sand loose,	Sample SB-29-Physical taken



Projec	t Na	me:		LAU	SD-EV	/MS					Project N	Number: 53306	Borel Num!		SB-30			
Boreh	ole I	oca	tion	Fo	rmer S	ear's gar	den cent	ег		No	thing:	Easting:			Sheet	1	of	1
Drilli	ng A	gen	cy:		EST							Driller: Ale	x Chapma	ın				
Drilli	ng E	quip	men	t:	Truc	k mounte	ed Geopr	obe			4	Date Started: 1/2	5/2002	Total Depth	(feet):		5.0	
Drilli	ng M	cth	od:		Dire	ct Push				Numb	er of 5	Date Finished: 1/2	5/2002	Depth 1 Bedroc	lo k (feet)	:		
Drilli	ng Fi	uid:			None	3				Boreh	ole eter (in): 2	Depth to Water (feet): Drilling	g:		Static: i	VA.		
Com	oletio	n lr	ıforn	nation	: Bac	kfilled w	ith bento	nite and	d capp		concrete	Elevation (feet MSL):						
												Logged By: L. Browne		Checke	d By:	Steve V	Villiam	s, R.C
			Sam	ples		Field	Analy	ses	L	og								
Depth (feet)	Number	SB / 1146 0 SM = \ASPHALT; parking lot - SILTY SAND; Medium brown, 70% sand (med													F	temar	ks	
3										SM	ASPHALT; p	arking lot	d (mediu	<i>J</i> - 3	Start @	1144		
-	-30 -1	X		100					Ш	SW	to fine), 30%				20.30			
-	SB -30	\forall			1147		0				 (coarse to fin subangular), 	ne), 15% gravel (angular to 5% silt, loose, moist, mica			Duplica	te sam	ple tal	cen
5-	-3 SB	\bigvee		100	1148		0				odor.			1	Duplica	te sam	ple tal	ken
1	-30 -5													=				
1.4.1										3				=				
-										3				=				
10-						1				1	3			=				
-										13	<u>-</u>			1				
7														3				
15-														-				
15-		П												1				
1										l d				=				
-														-				
25											5			-				
1										1				-				
13														=				
25-										13				-				
25														=				
														=				
										/	-			=				
30											-			+				



Proje	ct Na	me		LAU	SD-E	VMS					Project N	umber:	53306	Borel		SB-3	ı		
Borel	hole I	Loc	ation	: W	estem	service b	ay			No	rthing:		Easting:			Shee	t	1 0	1
Drilli	ng A	gen	cy:		EST	0						Driller:	Ale	x Chapmi	BIT				
Drilli	ing E	quip	mer	ıt:	porta	able GH-	40 Geop	robe				Date Sta	rted: 1/2:	3/2002	Total Depth	(feet):		12	.0
Drilli	ing M	leth	od:		Dire	ct Push				Num Samp	per of 4 les:	Date Fir	ished: 1/2:	3/2002	Depth Bedro	to ck (feet):		
Drilli	ing Fl	uid			Non	e				Borel	nole eter (in); 2	Depth to Water (1	eet): Drilling	3:		Static:	NA		
Com	pletic	n I	for	natio	n: Bac	kfilled w	ith bento	nite an	d capp	ed wit	concrete	Elevation (feet MS	n SL) :						
												Logged	By: L. Browne		Check	ed By:	Stev	e Willia	ıms, R.G
		1	Sam	ples		-	d Analy	ses	L	og									
Depth (feet)	Number	Type	Blow Count	Percent Recovery	Тіте	FID (ppm) Sample/Background	PID (ppm) Semple/Background	Additional Tests	Graphic	USCS or Rock Type	L	ithologic	Description			1	Rem	arks	
teletate	SB -31 -0.5	X		100	1018		0			SP-S	CONCRETE; SILTY SAND, sand (medium micaceous, n	poorly so to fine), 3	rted; Medium br 10% silt, moist,	own, 70%	6 -	Start @	101	5	
5-111111	SB -31 -7	X		100	1021		0		11	SM	SILTY SAND; to fine), 20% odor.	Medium k silt, 5% gra	orown, 75% sand avel, moist, mica	d (mediur aceous, n	00 01				
10-	SB -31 -10	X		100	1027		0			SP	SAND, poorly SAND, well go				11111				
20	-31 -12				1031										the felt for the felt felt for the felt for the fertile for the felt f				



Project Name: LAUSD-EVMS											Project N	e SB-32							
Borel	iole I	oca	tion	: C	larifier	near entr	rance to	sales ar	ea	No	thing:	ing: Easting: Sheet I							
Drilli	ng A	gen	cy:		EST							Driller: Alex Chapman							
Drilli	ng E	quip	men	t:	Truc	k mounte	ed Geopi	robe				Date Started: 1/25	/2002 T	otal epth (feet): 15.0					
Drilli	ng M	etho	od:		Dire	ct Push				Num		epth to edrock (feet):							
Drilli	ng Fl	uid:			None	e				Borel	ole eter (in): 2	Depth to Water (feet): Drilling:		Static: NA					
Com	pletio	n Ir	ıforn	natio	n: Bac	kfilled w	ith bento	nite an	d capp	ed wit	concrete	Elevation (feet MSL):							
												Logged By: L. Browne	C	hecked By: Steve Williams, R.C					
		5	Sam	ples			d Analy	yses	L	og									
Depth (feet)	Number	Type Blow Count Percent Recovery Time FID (ppm) Sample/Background PID (ppm) Additional Tests Graphic USCS or Rock Type					USCS or Rock Type	Li	ithologic Description	Remarks									
						1 =				SP	ASPHALT; dri FILL; asphalt CONCRETE;	base reinforced former pad, still	F- Start @ 0620						
	SB	V		100							moist, micace	graded; Medium brown, 70 e), 30% silt, trace gravel, o ous, no odor.							
5-	SB -32 -5	<u> </u>			0629		0			SP	SAND, poorly (medium to fin micaceous, no	graded; Medium brown, 90 e), 10% silt, loose, moist, o odor.	Duplicate sample SB-32-5-DUP taken						
10-	SB -32	X		100	0634		0						- Duplicate sample						
	-10									SP	SAND, poorly (medium to fin micaceous, no	graded; Medium brown, 90 le), 10% silt, loose, moist, o odor.	% send	SB-32-10-DUP taken					
1111	SB -32	X		100	0645		0							Duplicate sample					
20-	-15													SB-32-15-DUP taken					

EARTH TECH

Project Name: LAUSD-EVMS											Project Number: 53306	Project Number: 53306 Borehole Number:							
Borel	iole l	Loca	ation	: E	ast of f	ormer US	ST area			No	ng: Easting:	Easting: Sheet 1							
Drilli	ng A	gen	cy:		EST						Driller: Al	Driller: Alex Chapman							
Drilli	ng E	quip	mer	nt:	Truc	k mounte	ed Geopr	robe			Date Started: 1/2	25/2002	2002 Total Depth (feet): 15.0						
Drilli	ng M	cth	od:		Dire	ct Push				Num	of 3 Date Finished: 1/2	25/2002	Depth						
Drilli	ng Fl	uid:			Non	e				Borel Diam	(in): 2 Depth to Water (feet): Drillin								
Com	oletio	n Ir	Information: Backfilled with bentonite and capped with								Classica								
											Logged By: L. Brown	e	Checke	d By: Steve Williams, R					
		5	Sam	ples		1 3	d Analy	yses	L	og									
(feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	Lithologic Description		Remarks						
2111111111111	SB -33 -5	X		100	0704		0			SM	ASPHALT; driveway SILTY SAND; Medium brown, 70% sai to fine), 30% silt, trace gravel, dense, i micaceous, no odor.	D; Medium brown, 70% sand (medium - 6 silt, trace gravel, dense, moist,							
10	SB -33 -10	X		100	0709		0			SP	SAND, poorly graded; Light brown, 850 (medium to fine), 15% silt, loose, mois micaceous, no odor.	Telalistick.							
15	SB -33 -15	X		100	0723		0						the state						
20-													بايايا إياناناياناينان						



Project Name: LAUSD-EVMS											Project Number: 53306	ect Number: 53306 Borehole Number: SB-34						
Borel	ole L	_oça	tion:	lm	media	tely Nort	h of elev	ator sha	aft	No	ing: Easting:	Easting:						
Drilli	ng A	geno	ey:		EST						Driller: Al	lex Chapm	an					
Drilli	ng Eo	quip	men	t	Truck	k mounte	ed Geopr	obe			The second secon	28/2002	Total Depth	(feet): 35.0				
Drilli	ng M	letho	od:		Direc	ct Push				Num	of 3 Date Finished: 1/	28/2002	Depth Bedroo	to ck (feet):				
Drilli	ng Fl	uid:			None	•			П	Borel	Depth to Water (feet): Drillin	ng:		Static: NA				
Com	pletio	n In	form	nation	: Back	kfilled w	ith bento	nite and	d capp	ed wit	oncrete Elevation (feet MSL):							
											Logged By: L. Brown	e	Checke	ed By: Steve Williams, R.				
		5	Sam	ples		Field	d Analy	ses	L	og								
(feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	Lithologic Description			Remarks				
10-20-	SB -34			100	1030		0			SP	CONCRETE; pad SILTY SAND; Medium brown, 65% sa to fine), 35% silt, trace gravel, loose, ri micaceous, no odor. No Sampling SAND, poorly graded; Light brown,90' (medium to fine), 10% silt, loose, mois micaceous, no odor. No Sampling	% sand	9 - 1 - 1 - 1	Start @ 1015 Hand auger to 5' bgs				

EARTH **T** E C H

Borehole Log (Continuation Sheet)

Project Name: LAUSD-EVMS											Project Number: 53306	Borehole Number:	SB-3	4		
Borel	nole L	oca	tion:	3	mmed	iately No	orth of ele	valor s					Sheet	2	of	2
		Sa	mp	les		Field	d Analy	sis	L	og						
Depth (feet)	Number	Type	Blow Count	Percent Recovery	Time	FID (ppm) Sample/Background	PID (ppm) Sample/Background	Additional Tests	Graphic	USCS or Rock Type	Lithologic Description		Remarks			
	SB -34 -30	X			1105		0				SILTY SAND; Medium brown, 60% sand (o to fine), 40% silt, trace gravel, moist, micad no odor.	coarse -				
35 -	SB -34 -35	X		100	1128		0				SILT; Medium brown, 60% silt, 40% sand (medium to fine), trace gravel, moist, micae no odor.	ceous,				

APPENDIX C

TCE AND PCE CONTAMINATION MAPS FOR SHALLOW GROUNDWATER IN THE SAN FERNANDO VALLEY BASIN

APPENDIX D ANALYTICAL RESULTS



February 8, 2002 PM07702

Steve Williams Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Subject:

Calscience Work Order No.:

Client Reference:

02-01-0947

LAUSD-East Valley M.S./47127

Dear Mr. Williams:

Calscience Environmental Laboratories, Inc. (Calscience) is pleased to submit herewith the subject analytical report. The narrative presented below summarizes our analytical effort and clarifies any quality control anomalies which appear in the report.

Sample Condition on Receipt

Twenty soil samples and Eight air samples were received as part of this Work Order on January 23, 2002. All samples were transferred to the laboratory in appropriate containers following strict chain-of-custody procedures. The temperature of the ice-chest for the soil samples was measured upon arrival in the laboratory and was not within acceptable limit (10°C). The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary

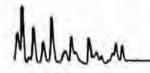
Data is presented on a wet weight basis.

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.



Blanks

The method blank data showed non-detectable levels for all constituents, with the exception of trace levels of cobalt and copper for batch 020123lcs9 and selenium for batch 010605lcs5. For VOCs the method blanks showed trace levels of methylene chloride and naphthalene for the following batches 060501AS, 060501AE and 060501BE.

Matrix Spikes

Matrix spikes (MS) and matrix spike duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits.

Laboratory Control Samples

The Laboratory Control Sample (LCS) analysis was performed at the required frequency. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for all samples were within acceptable control limits.

If there are any questions regarding this report, please contact the undersigned at (714) 895-5494.

Sincerely,

Calscience Environmental

Laboratories, Inc.

Marycarol Valenzuela

Project Manager

Michael J. Crisostomo

Quality Assurance Manager



0947



_		4												Custo	dy Seal #			Earth Tech	Cooler	#		
	ct Number	Project Nam									Analy	sis Re	quired					N	/atrix			
47	127	LAUSD -	EATT VA	LLE'	y m	.2.		11 3									San	nple Type	Sa	mple (Containe	
Sample Custodian; (Signature) LAUNENCE BROWNE					ne.			0	0			П		11	П			Carle Land				
tem No.		Description D Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	82	100							2011		5.5. 5			
1	58-31-0.5		1/23/02	1013	X		0		人	X			1				X		x			
2	58-31-7			1021	1				1											-1		
3	58-31-10		SKLIE	1027				1					4.4									
4	59-31-12			1031																		
5	58-20-0.5			1050																		
6	SR-20-7			1055											100							
7	58-20-10			1101																		
8	58-20-1	2_		1107																		
9	58 - 13 - D.	7		1135																	1-1	
10	58-13-7			1140															Ш			
11	58 - 13 -10			1142			J 124															
12	TB - 13 -12			1145																		
13	58 - 11 - 015	5		1234				2.43											Ш			
14	58-11-7			1235				7	Ш										Ш			
15	SR-11-10			1242			6.1		Ш					1					Ш			
16	TB-11-12			1250					Ш							Ш			111			
17	18 -10 -0.5	5		1346	1				1	4		1				Ш			111			
18	58-10-7			1349			1		1	1		1							11		7	
Relinquished by: (Signature) Date / Time 1/23/01/1725							by: (Signa					Dispo	osed of t	y: (Signature)		Items:			Date /			
Relinquished by: (Signature) Date / Time / 23/23 1725						Received	by: (Signa	TO THE	8			Dispo	osed of t	oy: (Signature)		Items:			Date /	Time		
51	ab Results To: EVE WILLI O A. BROAD ONL BOAC	amp	240	Rema	rks:	24 1	IN TAT CS 494 ss Airbill N			,		☐ Sa	Delivery M mples de mmon ca	livered	in person	Cus	tody Seal In	eiving Notes: stact? sing Container:				
fu	x (562) 951	-2086	DOC	-												Sam	ple Conditi	on:				



A TUCO INTERNATIONAL LTD. COMPANY



Chain of stody Record

															Cus	tody Seal #			E	arth Tech	Cooler	#		
Proje	ct Number	Project Name/Clie	nt.									Anal	ysis Re	quire	d					M	atrix			
4-	7127	Signature) LAWKE	T VALL	EY	m	.7.												- 3	Samp	le Type	S	ample	e Cont	lainer
Samp	ole Custodian: (S	Signature) LAUKE	nce	Bri	own	E			0	01		AME									BELE	74	I	
Item No.		Description ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	827	100	to-14	METHAN						Soll	GAS		5.5.5	SLAMA		
1	58-10-10		/23/02	1356	X		0		4	+								X			X			
2	58-10-12			1400	X		0		+	+								×			X	5.1		
3	56-10-20			0930	×						×	X							X		i E	X		
4	54-10-10			0945	х						1	X								460				
5	56-4-20			1432	X			-				X												
6	56-4 -10		- 7	1434	X							X							1					
7	56-11-90			150L	X													1	11					
8	54-15-20 D			1519	X					01	Ш							1						
9	56-15-10D			1524	X														1			1		3
10	56-14-200			1538	X						X.								X			X		
11	2									UJ-I														
12																								
13																								
14																	MATERIA							
15																								-
16						ASS																		
17																								
18		,																						
Relinquished by: (Signature) Public / Time 1/3 62 1/25						ne 2		by: (Signa	,					Di	sposed o	of by: (Signature)	10	ems:				Date	e / Time	b.
Relinquished by: (Signature) Days / Time 1/2 1/25					Received	6	goie))				Di	sposed o	of by: (Signature)	Jt.	ems:				Date	e / Time	2		
Send L	ab Results To:	EVE WILLIAMS				24	HR T	AK					Check I	Deliver	y Metho	od:	Labora	tory	Receiv	ing Notes:				
100 W. BROADWAY STG. 240					(5	PAS 4	SHEL					□ Sa	mples	delivere	d in person	Custod	ly Se	al Intac	:1?					
100 W. BROADWAY 570.240 LONG BEACH CA 90502 Federal Expr. Lab:				Expres	s Airbill N	D.:							carrier			Custody Seal Intact? Temp. of Shipping Container:								
for (50195) 709/																Sample	_	200						
- "	7 1004 10			WH	ite C	ony -	Lab		Yello	w Co	TSV -/	File	-	-	Pink (Conv - Client		3.5.20				-	_	

0947

Custody Seal # Eurth Tech Cooler V Project Number Project Name/Client Analysis Required Matrix LAUSD - GAST VALLEY MS. 47127 Sample Type Sample Container Sumple Custodian; (Signature) Launtact Brownt 0 HO PID -Rending Label Sample Description Bear. 7.5 O h Number (ReM ID Number) No. x 1/27/12 015 0 58-31-05 2 58 - 21 - 7 3 627 58 -31 -10 51-31-12 5 55. 20 -0.5 2054 58-20-7 7 58-20-10 . 73-20-12 0 9 58 - 13 - D.F 10 1190 58-13-7 11 1140 58 - 13 -10 12 1145 TR - 13 -12 13 1272 TR - 11 - 0.5 표 14 58 - 11 - 7 15 SR - 11-10 H 16 TB - 11 - 12 18 -10 -0.5 38 - 10 - 7 Date / Time Received by: (Signature) Disposed of by: (Signmere) beme: Date / Time Religionished by: (Signature) 1226.11725 Received by (Simple) 13 1725 -Reliefulched by: (Signature) Disposed of by: (Signature) Date / Tane Berry. TRO Send Lab Results To: Remarks: 24 HALTAT Check Delivery Method: Laboratory Receiving Notes: STEVE -ILLIAMS (SUDCA 45HR) Paderal Express Airbil No.: Suroples delivered in person Custody Seed biact? 100 W. BROATWAY STE 240 Common rarder Temp. of Shipping Continer: LONG BENCH LA 90802 Labo Samele Condition: for (562) 951-2006 White Copy - Lab Yellow Copy - Pile Pink Copy - Chest

LARTH (E) TECH

A CHEST INTERNATIONAL LTD. COMPANY

A R T B () T R C H

Sample Description (Field ID Number)

Project Name/Client

Sample Custodian: (Signature) LAURENCE BROWNE

LAUSD - EAST VALLEY M.S.

Date

1/21/07/130

1900

HILL X

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MA

Kod

150

15-24

574X

A TYPES INTERNATIONAL LED. COMMANY

Project Number

56-10-10

58-10-12 54-10-20 IG-10-10

56-4-20

56-4 -10

56 -11-9 D

54 -15-10 D

56-15-100

56-14-20D

47127

Hers.

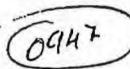
No.

1

2

7

10



Chain of Ch. y Record

Custody Seal # Rank Tech Confer Analysis Required Matrix Sample Type Sample Container Sur 160 X Date / Time Date / Time ining Notes: Container:

16									
IT .									
IL .									
taking without by: (Signatury)	Date / Time Received by: (Signature)	Disposed of by: (Signature) Beant:						
is implied by: (Signature)	Holas 1700 Maccine My (Maybe)	Disposed of By; (Signature) Rems:							
IND W. BROADWAY STO. 24 U VONE BEACH CA 90502	Remarks: 24 Hr. TAK (No. 12 Hr. TAK Federal Express Airbit No.: Lab:	D s	Delivery Method: amples delivered to person common carrier	Laboratory Recei Custody Seaf lear Temp. of Shippin					
fax (502) 951-2086			Sample Conditi						
w 100m	Waite Copy - Lab Yellow Co	py · File	Pink Copy - Client						

827

Label Number

MO

Reading

(pers)

0

0

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC. Sample Summary Report

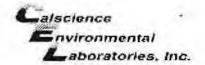
WORK ORDER #:

02-01-0947

QAPP:

0117

	Client Sample ID	Matrix	Date Collected	NoC	Comment
	SB-31-0.5	S	01/23/2002	1	
	SB-31-7	S	01/23/2002	1	
	SB-31-10	S	01/23/2002	13.4	
	SB-31-12	S	01/23/2002	1	
	SB-20-0.5	S	01/23/2002	1	
	SB-20-7	S	01/23/2002	1	
	SB-20-10	S	01/23/2002	1	
	SB-20-12	S	01/23/2002	1	
1	SB-13-0.5	S	01/23/2002	t	
0	SB-13-7	S	01/23/2002	1	
1	SB-13-10	S	01/23/2002	1	
2	SB-13-12	S	01/23/2002	1	
3	SB-11-0.5	S	01/23/2002	1	
4	SB-11-7	S	01/23/2002	1	
5	SB-11-10	S	01/23/2002	1	
6	SB-11-12	S	01/23/2002	1	
7	SB-10-0.5	S	01/23/2002	1	
8	SB-10-7	S	01/23/2002	1	
9	SB-10-10	S	01/23/2002	1	
0	SB-10-12	S	01/23/2002	1	
1	SG-10-20	А	01/23/2002	1	
2	SG-10-10	A	01/23/2002	1	
3	SG-4-20	A	01/23/2002	1	
4	SG-4-10	A	01/23/2002	1	
5	SG-11-9D	Α	01/23/2002	1	
6	SG-15-20D	Α	01/23/2002	1	
7	SG-15-10D	Α	01/23/2002	1	
8	SG-14-20D	А	01/23/2002	1	



WORK ORDER #: 02- 1 1 -	0	a	4	7
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Cooler ____ of ___

CLIENT: EARTH TECH	DATE: 1/23/02
EMPERATURE - SAMPLES RECEIVED BY:	
Chilled, cooler with temperature blank provided. Chilled, cooler without temperature blank. Chilled and placed in cooler with wet ice. Ambient and placed in cooler with wet ice. Ambient temperature. Color of the cooler with temperature. Color of the cooler with the co	LABORATORY (Other than Calscience Courier) O C Temperature blank. Chilled, without temperature blank. Ambient temperature. Initial:
CUSTODY SEAL INTACT:	
Sample(s): No (Not In	ntact): Not Applicable (N/A): Initial:
Chain-Of-Custody document(s) received with samples Chain-Of-Custody document(s) received with samples Cample container label(s) consistent with custody papers Cample container(s) intact and good condition Correct containers for analyses requested Proper preservation noted on sample label(s)	
COMMENTS:	

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/23/02

Work Order No:

02-01-0947

·Preparation:

Total Digestion

Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

Page 1 of 8

Client Sample Nu	mber				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
58-31-0.5				02-	01-094	7-1	01/23/02	Solid	01/23/02	01/24/02	(20123	lcs9
Comment(s):	Mercury was	analyzed or	1/24/02 1	0:28:	MA E	with batc	h 020123lcs5						
Parameter	D-132-108-121-1	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony		0.229	0.750	4	J	mg/kg	Mercury		0.0181	0.0835	1	J	mg/kg
Arsenic		0.142	0.750	1	J	mg/kg	Molybdenum		0.0518	0.250	1	J	mg/kg
Barium		76.7	0.5	1		mg/kg	Nickel		6.54	0.25	1		mg/kg
Beryllium		0.207	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium		0.283	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	io .	8.62	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt		6.60	0.25	1		mg/kg	Vanadium		20.6	0.2	1		mg/kg
Copper		9.1B	0.50	1		mg/kg	Zinc		35.4	1.0	1		mg/kg
Lead		5.67	0.50	- 1		mg/kg			122.5	3/5	,		
B-31-7				02-	01-094	7-2	01/23/02	Solid	01/23/02	01/24/02	1	20123	ics9
Comment(s):	Mercury was	analyzed or	1/24/02 1	0:31:	18 AM	with bate	h 020123/cs5						
Parameter		Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony		ND	0.750	1		mg/kg	Mercury		0.0669	0.0835	1	3	mg/kg
Arsenic		ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium		45.0	0.5	1		mg/kg	Nickel		2.66	0.25	1		mg/kg
Beryllium		0.102	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium		0.120	0.500	1	J	mg/kg	Silver		0.111	0.250	1	J	mg/kg
Chromium (Total)	ř.	3.17	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt		3.40	0.25	1		mg/kg	Vanadium		9.86	0.25	1		mg/kg
Copper		3.88	0.50	1		mg/kg	Zinc		16.3	1.0	1		mg/kg
Lead		1,17	0.50	1		mg/kg			0.00				
SB-31-10				02-	01-094	7-3	01/23/02	Solid	01/23/02	01/24/02	1	20123	1089
Comment(s):	Mercury was			0:34:		with bate	ch 020123lcs5						
Parameter		Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony		0.297	0.750	1	J	mg/kg	Mercury		0.0149	0.0835	1	J	mg/kg
Arsenic		ND	0.750	1		mg/kg	Molybdenum		0.0233	0.250	1	J	mg/kg
Barium		60.1	0.5	1		mg/kg	Nickel		4.75	0.25	1		mg/kg
Beryllium		0.126	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium		0.168	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total))	6.89	0.25	1	4.0	mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt		5.04	0.25	1		mg/kg	Vanadium		15.4	0.2	1		mg/kg
Copper		5.54	0.50	1		mg/kg	Zinc		23.0	1.0	1		mg/kg
Lead		1.35	0.50			mg/kg	2007			9.37			

RL - Reporting Limit ,

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/23/02

Work Order No:

02-01-0947

Preparation:

Total Digestion

Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

Page 2 of 8

Client Sample Nu	mber				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	h ID
SB-31-12				02-	01-094	7-4	01/23/02	Solid	01/23/02	01/24/02		20123	ice9
Comment(s):	Mercury was a	analyzed on	1/24/02 1	0:37:2	MA DS	with batc	h 020123lcs5						
Parameter	A. 120 A. 120 A.	Result	RL	DF	Qual	Units	<u>Paramater</u>		Result	RL	DF	Qual	<u>Units</u>
Antimony		0.336	0.750	1	J	mg/kg	Mercury		0.0166	0.0835	1	J	mg/kg
Arsenic		ND	0.750	1		mg/kg	Molybdenum		0.0436	0.250	1	J	mg/kg
Barium		91.4	0.5	1		mg/kg	Nickel		9.91	0.25	1		mg/kg
Beryllium		0.279	0.250	1		mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium		0.349	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)		13.5	0.2	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt		8.73	0.25	1		mg/kg	Vanadium		27.2	0.2	1		mg/kg
Соррег		12.2	0.5	1		mg/kg	Zinc		38.5	1.0	1		mg/kg
Lead		2.55	0.50	3		mg/kg							
78-20-0.5				02-	01-094	7-5	01/23/02	Solid	01/23/02	01/24/02		20123	lcs9
Comment(s):	Mercury was a	analyzed on	1/24/02 1	0:40:	21 AM	with batc	h 020123lcs5						
Parameter	1000	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony		0.720	0.750	1	J	mg/kg	Mercury		ND	0.0835	1		mg/kg
Arsenic		ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium		315	0.500	1		mg/kg	Nickel		8.07	0.25	1		mg/kg
Beryllium		0.142	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium		0.518	0.500	1	× 1	mg/kg	Silver		0.0305	0.250	1	J	mg/kg
Chromium (Total)	1	10,1	0.2	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt		14.0	0.2	1		mg/kg	Vanadium		47.2	0.2	1		mg/kg
Copper		11.0	0.5	1		mg/kg	Zinc		52.6	1.0	1		mg/kg
Lead		1.22	0.50	1		mg/kg				1,14			
\$B-20-7		·········		02-	01-094	7-6	01/23/02	Solid	01/23/02	01/24/02		020123	lce9
Comment(s):	Mercury was	analyzed on	1/24/02 1		23 AM	with bate	h 020123lcs5						
Parameter		Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony		ND	0.750	1		mg/kg	Mercury		ND	0.0835	1		mg/kg
Arsenic		ND	0.750	-1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium		31.7	0.5	1		mg/kg	Nickel		1.81	0.25	1		mg/kg
Beryllium		0.0681	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium		0.0579	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)):	2.13	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt		2.12	0.25	1		mg/kg	Vanadium		6.60	0.25	1		mg/kg
Copper		2.72	0.50	1		mg/kg	Zinc		10.8	1.0	3		mg/kg
Lead		0.926	0.500	1		mg/kg	SALVEN I		1,515	0.4			

RL - Reporting Limit ,

DF - Dilution Factor .

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/23/02

Work Order No:

02-01-0947

Preparation:

Total Digestion

Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

Page 3 of 8

Client Sample Nu	mber				Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
SB-20-10				02-	01-094	7-7	01/23/02	Solid	01/23/02	01/24/02	t	20123	eas)
Comment(s):	Mercury was a	nalyzed on	1/24/02 1	0:46:2	25 AM	with bato	h 020123lcs5						
Parameter		Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	<u>Units</u>
Antimony		ND	0.750	1		mg/kg	Mercury		0.0155	0.0835	1	J	mg/kg
Arsenic		ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium	4.16	54.4	0.5	1		mg/kg	Nickel		3.57	0.25	1		mg/kg
Beryllium		0.102	0.250	1	1	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium		0.119	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)		4.37	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt		3.68	0.25	1		mg/kg	Vanadium		11.5	0.2	1		mg/kg
Copper		4.21	0.50	1		mg/kg	Zinc		16.2	1.0	1		mg/kg
Lead		1.12	0.50	1		mg/kg							
9-20-12				02-	01-094	7-8	01/23/02	Solid	01/23/02	01/24/02		20123	lcs9
Comment(s):	Mercury was a	nalyzed on	1/24/02 1	0:49:	28 AM	with batc	h 020123lcs5			******	-		
Parameter		Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony		ND	0.750	1		mg/kg	Mercury		ND	0.0835	1		mg/kg
Arsenic		ND	0.750	1		mg/kg	Molybdenum		0.0409	0.250	1	J	mg/kg
Barium		42.8	0.5	1		mg/kg	Nickel		3.74	0.25	1		mg/kg
Beryllium		0.0938	0.250	1	J	mg/kg	Selenium		0.249	0.750	1	J	mg/kg
Cadmium		0.112	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	1	5.22	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt		3.47	0.25	1		mg/kg	Vanadium		10.9	0.2	1		mg/kg
Copper		4.40	0.50	1		mg/kg	Zinc		16.4	1.0	1		mg/kg
Lead		0.967	0.500	1		mg/kg							
SB-13-0.5				02-	01-094	17-9	01/23/02	Solid	01/23/02	01/24/02	- (20123	les9
Comment(s):	Mercury was a	nalyzed on		0:52:			h 020123lcs5						
Parameter		Result	RL	DF	Qual	Units	Parameter		Result	RL	<u>DF</u>	Qual	Units
Antimony		1.30	0.75	1		mg/kg	Mercury		ND	0.0835	1		mg/kg
Arsenic		0.430	0,750	1	J	mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium		286	0.500	1		mg/kg	Nickel		8.43	0.25	1		mg/kg
Beryllium		0.173	0.250	1	1	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium		0.664	0.500	1		mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	i .	10.7	0.2	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt		12.9	0.2	1		mg/kg	Vanadium		46.2	0.2	1		mg/kg
Copper		13.4	0.5	1		mg/kg	Zinc		63.4	1.0	1		mg/kg
Lead		18.3	0.5	1		mg/kg				7.7			

RL - Reporting Limit

DF - Dilution Factor



Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

Work Order No:

01/23/02

02-01-0947

Preparation:

Total Digestion

Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Nu	mber			Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	h ID
SB-13-7	-1		02-	01-094	7-10	01/23/02	Solid	01/23/02	01/24/02	C	20123	csf
Comment(s):	Mercury was analyz	ed on 1/24/02	10:55:	34 AM	with bato	th 020123lcs5				7		
Parameter	Resu		DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
Antimony	0.31	9 0.750	1	J	mg/kg	Mercury		0.0183	0.0835	1	J	mg/kg
Arsenic	ND	0.750	1	1200	mg/kg	Molybdenum		0.0547	0.250	1	J	mg/kg
Barium	61.7	0.5	1		mg/kg	Nickel		5.07	0.25	1		mg/kg
Beryllium	0.14	0.250	1	3	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.17		1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	6.83	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	5.45	0.25	1		mg/kg	Vanadium		16.7	0.2	1		mg/kg
Copper	5.94		1		mg/kg	Zinc		24.7	1.0	1		mg/kg
Lead	1.46	0.50	1		mg/kg							
8-13-10		Canada Ca	02-	01-094	7-11	01/23/02	Solid	01/23/02	01/24/02		20123	ics9
Jomment(s):	Mercury was analyz			46 AM	with bate	ch 020123ics5						7.7
Parameter	Resu	it RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	0.38	0.750	1	J	mg/kg	Mercury		0.0142	0.0835	1	J	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		0.0211	0.250	1	J	mg/kg
Barium	64.0	0.5	1		mg/kg	Nickel		5.19	0.25	1		mg/kg
Beryllium	0.13	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.16	9 0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	6.16	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	5.20	0.25	1		mg/kg	Vanadium		16.0	0.2	1		mg/kg
Copper	5.92	0.50	1		mg/kg	Zinc		23.8	1.0	1		mg/kg
Lead	1.28	0.50	1		mg/kg			Part of				
SB-13-12	4		02-	01-094	17-12	01/23/02	Solid	01/23/02	01/24/02	(020123	ics9
Comment(s):	Mercury was analyz			50 AM		ch 020123lcs5					Da. S.	
Parameter	Resu	ilt RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	0.2	212 0.750	1	J	mg/kg	Mercury		0.0133	0.0835	1	J	mg/kg
Arsenic	ND	0.750	- 1		mg/kg	Molybdenum		0.0278	0.250	1	1	mg/kg
Barium	111	0.500	1		mg/kg	Nickel		10.2	0.2	1		mg/kg
Beryllium	0.3	284 0.250	1		mg/kg	Selenium		0.787	0.750	1		mg/kg
Cadmium	0.4	104 0.500	1	1	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	14.	0.2	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	9.3	23 0.25	1		mg/kg	Vanadium		29.5	0.2	1		mg/kg
Copper	12.9	0.5	1		mg/kg	Zinc		40.1	1.0	1		mg/kg
Lead	2.7	73 0.50	1		mg/kg							

RL - Reporting Limit ,

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/23/02

Work Order No:

02-01-0947

Preparation:

Total Digestion

Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Nur	mber				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC E	Batch ID
59-11-0.5				02-	01-094	7-13	01/23/02	Solid	01/23/02	01/24/02	020	123lcs9
Comment(s):	Mercury was	analyzed on	1/24/02 1	1:10:5	56 AM	with bato	h 020123lcs5					
Parameter		Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Q	ial Units
Antimony		1.56	0.75	1		mg/kg	Mercury		ND	0.0835	1	mg/kg
Arsenic		ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1	mg/kg
Barium		304	0.500	1		mg/kg	Nickel		7.70	0.25	1	mg/kg
Beryllium		0.161	0.250	1	J	mg/kg	Selenium		ND	0.750	1	mg/kg
Cadmium		0.522	0.500	1		mg/kg	Silver		ND	0.250	1	mg/kg
Chromium (Total)		10.4	0.2	1		mg/kg	Thallium		ND	0.750	1	mg/kg
Cobalt		13.1	0.2	1		mg/kg	Vanadium		49.8	0.2	1	mg/kg
Copper		11.8	0.5	1		mg/kg	Zinc		53.0	1.0	1	mg/kg
Lead		1.01	0.50	1		mg/kg						
B-11-7				02-	01-034	7-14	01/23/02	Solid	01/23/02	01/24/02	020	123KS9
Jomment(s):	Mercury was	analyzed on	1/24/02 1	1:14:	02 AM	with bato	ch 020123lcs5					
Parameter	T	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Q	ual Units
Antimony		0.215	0.750	1	1	mg/kg	Mercury		0.0187	0.0835	1 J	mg/kg
Arsenic		ND	0.750	1		mg/kg	Molybdenum		0.201	0.250	1 1	mg/kg
Barium		47.1	0,5	1		mg/kg	Nickel		3.34	0.25	1	mg/kg
Beryllium		0.0835	0.250	1	J	mg/kg	Selenium		0.405	0.750	1 J	mg/kg
Cadmium		0.125	0.500	1	J	mg/kg	Silver		ND	0.250	1	mg/kg
Chromium (Total)		4.56	0.25	1		mg/kg	Thallium		ND	0.750	1	mg/kg
Cobalt		3.17	0.25	1		mg/kg	Vanadium		10.2	0.2	1	mg/kg
Copper		4.14	0.50	1		mg/kg	Zinc		17.7	1.0	1	mg/kg
Lead		1.03	0.50	1		mg/kg						
SB-11-10			,	02-	01-094	17-15	01/23/02	Solid	01/23/02	01/24/02	020	123lcs9
Comment(s):	Mercury was				07 AM	with bate	ch 020123lcs5					1. 1.1.1
Parameter		Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Q	ual Units
Antimony		ND	0.750	1		mg/kg	Mercury		ND	0.0835	1	mg/kg
Arsenic		0.133	0.750	1	J	mg/kg	Molybdenum		ND	0.250	1	mg/kg
Barium		63.2	0.5	1		mg/kg	Nickel		4.79	0.25	1	mg/kg
Beryllium		0.132	0.250	1	J	mg/kg	Selenium		ND	0.750	1	mg/kg
Cadmium		0.196	0.500	1	J	mg/kg	Silver		ND	0.250	1	mg/kg
Chromium (Total)		6.87	0.25	1		mg/kg	Thallium		ND	0.750	1	mg/kg
Cobalt		5.22	0.25	1		mg/kg	Vanadium		17.6	0.2	1	mg/kg
Copper		5.76	0.50	1		mg/kg	Zinc		23.8	1.0	1	mg/kg
The state of the s		1.30	0.50			9.9						

RL - Reporting Limit ,

DF - Dilution Factor ,

Qual - Qualifiers

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Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/23/02

Work Order No:

02-01-0947

Preparation:

Total Digestion

Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Nu	mber			Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
SB-11-12		18	02-	01-094	7-16	01/23/02	Solid	01/23/02	01/24/02	0	20123	ics9
Comment(s):	Mercury was analyzed on	1/24/02 1	1:20:	MA 90	with batc	h 020123lcs5						
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	<u>OF</u>	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0307	0.0835	1	3	mg/kg
Arsenic	0.315	0.750	1	J	mg/kg	Molybdenum		0.229	0.250	1	J	mg/kg
Barium	43.0	0.5	1		mg/kg	Nickel		2.98	0.25	1		mg/kg
Beryllium	0.0952	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.103	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	4.72	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	3.37	0.25	1		mg/kg	Vanadium		10.5	0.2	1		mg/kg
Copper	4.09	0.50	1		mg/kg	Zinc		16.2	1.0	1		mg/kg
Lead	1.21	0.50	1		mg/kg							
9-10-0,5			02-	01-094	7-17	01/23/02	Solid	01/23/02	01/24/02		20123	lcs9
Somment(s):	Mercury was analyzed or	1/24/02 1	1:32:	13 AM	with bate	th 020123lcs5						
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	0.198	0.750	1	J	mg/kg	Mercury		0.245	0.083	1		mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium	69.7	0.5	1		mg/kg	Nickel		5.62	0.25	1		mg/kg
Beryllium	0.162	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.235	0.500	1	1	mg/kg	Silver		NO	0.250	1		mg/kg
Chromium (Total)	7.48	0.25	1		mg/kg	Thallium		NO	0.750	1		mg/kg
Cobalt	5.90	0.25	1		mg/kg	Vanadium		19.2	0.2	1		mg/kg
Copper	8.02	0.50	1		mg/kg	Zinc		31.3	1.0	1		mg/kg
Lead	4.67	0.50	1		mg/kg	2-11-1		3,11	14.4			
SB-10-7			02	01-094	7-18	01/23/02	Solid	01/23/02	01/24/02	(20123	llos9
Comment(s):	Mercury was analyzed or											
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	0.230	0.750	1	J	mg/kg	Mercury		ND	0.0835	1		mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium	41.7	0.5	1		mg/kg	Nickel		2.65	0.25	1		mg/kg
Beryllium	0.0728	0.250	1	1	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.0834	0.500	1	1	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	3.60	0.25	1		mg/kg	Thallium		NO	0.750	1		mg/kg
Cobalt	3.13	0.25	1		mg/kg	Vanadium		9.24	0.25	1		mg/kg
Copper	3.37	0.50	1		mg/kg	Zinc		14.9	1.0	1		mg/kg
Lead	1.03	0.50	1		mg/kg	-200			0.00			

RL - Reporting Limit .

DF - Dilution Factor ,



Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

01/23/02

Work Order No:

02-01-0947

Preparation:

Total Digestion

Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Nu	mber			Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
SB-10-10			02-	01-094	7-19	01/23/02	Solid	01/23/02	01/24/02	. 0	20123	lcs9
Comment(s):	Mercury was analyzed o	n 1/24/02 1	1:38:	13 AM	with batch	020123lcs5		***************************************				
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0182	0.0835	1	J	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		0.183	0.250	1	J	mg/kg
Barium	36.1	0.5	1		mg/kg	Nickel		2.17	0.25	1		mg/kg
Beryllium	0.0619	0.250	1	1	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.0682	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	2.81	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	2.42	0.25	1		mg/kg	Vanadium		6.74	0.25	1		mg/kg
Copper	3.32	0.50	1		mg/kg	Zinc		11.9	1.0	1		mg/kg
Lead	0.937	0.500	1		mg/kg							
3B-10-12			02-	01-094	7-20	01/23/02	Solid	01/23/02	01/24/02	C	20123	lcs9
Jomment(s):	Mercury was analyzed o	n 1/24/02	11:41:	14 AM	with batch	h 020123lcs5						
Parameter	Result	RL	<u>OF</u>	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0187	0.0835	1	J	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		0.0377	0.250	1	J	mg/kg
Barium	30.9	0.5	1		mg/kg	Nickel		2.49	0.25	1		mg/kg
Beryllium	0.0632	0.250	1	3	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.0706	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	3.25	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	2.42	0.25	1		mg/kg	Vanadium		7.52	0.25	1		mg/kg
Copper	3.25	0.50	1		mg/kg	Zinc		12.0	1.0	1		mg/kg
Lead	0.839	0.500	1		mg/kg							-
Method Blank			099	04-04	7-1,289	N/A	Solid	01/23/02	01/24/02	. (20123	Hos5
Parameter	Result	RL	DF	Qual	Units							

RL - Reporting Limit

Mercury

DF - Dilution Factor ,

0.0835 1

ND

Qual - Qualifiers

mg/kg

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Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

Work Order No:

02-01-0947 **Total Digestion**

Preparation:

Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

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01/23/02

Client Sample Number				Sampl umber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	ch ID
Method Blank			097	-01-00	2-3,066	H/A	Solid	01/23/02	01/24/02	. 0	20123	ice9
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Arsenic	ND	0.750	1		mg/kg	Nickel		ND	0.250	1		mg/kg
Barium	ND	0.500	1		mg/kg	Selenium		ND	0,750	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Silver		ND	0.250	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Chromium (Total)	ND	0.250	1		mg/kg	Vanadium		ND	0.250	1		mg/kg
Cobalt	0.0188	0.250	1	1	mg/kg	Zinc		ND	1.00	1		mg/kg
Copper	0.0947	0.500	1	J	mg/kg	Lead		ND	0.500	1		mg/kg

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/23/02 02-01-0947 EPA 3545

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl umber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	ch ID
SB-31-0.5			02-	01-094	17-1	01/23/02	Solid	01/23/02	01/24/02	0	20123	6
Parameter	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	7	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl			0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	· Hony, Lote,	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	-1		mg/k
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyi) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	4		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/k
Hexachloroethane	ND	0.50	4		mg/kg	4-Bromophenyl			0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben	And the second s	ND	0.50	1		mg/k
sophorone	ND	0.50	1		mg/kg	Pentachlorophe	Denie	ND	2.5	1		mg/k
2-Nitrophenal	ND	0.50	1		mg/kg	Phenanthrene	2001	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/k
Benzoic Acid	ND	2.5	4		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/k
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	aidia	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	-		mg/kg	Benzidine		ND	10	1		mg/k
1,2,4-Trichlorobenzene	ND	0.50	4		mg/kg	Pyrene		ND	0.40	1		mg/k
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/k
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pl	nthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/k
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	4		mg/kg	Chrysene	ny i mananato	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/k
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/k
2-Nitroaniline	ND	0.50	4		mg/kg	Benzo (a) Pyre		ND	0.35	- 1		mg/k
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/k
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/k
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1		mg/k
Acenaphthene	ND	0.40	1		mg/kg	Delizo (g,n,i) F	GI YIGI IG	IAD	0.40	1		ang/k
Surrogates:	REC (%)	Control Limits		Qua	110	Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	90	31-142				Phenol-d6		95	30-136			
Nitrobenzene-d5	93	28-139				2-Fluorobiphen	w)	91	33-144			
2,4,6-Tribromophenol	84	24-152				p-Terphenyl-d1	CPU -	93	23-160			
2,7,0-1 Hustomophenor	04	24-132				b- reibileniki-d		90	23-100			

RL - Reporting Limit ,

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/23/02 02-01-0947 EPA 3545

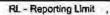
Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	h ID
SB-31-7			02-	01-094	7-2	01/23/02	Solid	01/23/02	01/24/02	00	20123	5
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DE	Qual	<u>Units</u>
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	lol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	-	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ne	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
,4-Dichlorobenzene	ND	0.50	- 1		mg/kg	4-Chlorophenyl			0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	10 -232	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenal	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-dl-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro	DOMESTIC OF THE PARTY.	ND	0.50	1		mg/kg
-lexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	1		mg/kg
Vitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	20121	ND	0.40	1		mg/k
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2,5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroanlline	ND	0.50	1		mg/kg	Butyl Benzyl Pl	hthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butediene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	nalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/k
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/k
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/k
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A		ND	0.40	1		mg/k
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1		mg/k
Acenaphthene	ND	0.40	1		mg/kg	Politica (Billio)	Jione	1.0	0.70			mg/n
Surrogates:	REC (%)	Control		Qua		Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	93	<u>Limits</u> 31-142				Phenol-d6		98	30-136			
Nitrobenzene-d5	98	28-139				2-Fluorobipher	nol .	94	33-144			
2,4,6-Tribromophenol	89	24-152				p-Terphenyl-d1	14	93	23-160			



DF - Dilution Factor .

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/23/02 02-01-0947 EPA 3545

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bate	ch ID
SB-20-0.5			024	01-094	7-5	01/23/02	Solid	01/23/02	01/24/02	020123	8
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF Qual	<u>Units</u>
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	iol	ND	2.5	1	mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1	mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1	mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl			0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	9.11502(0.115)	ND	0.40	1	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1	mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	4	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	4	mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	4	mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1	mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophe	T. O. C. C. C.	ND	2.5	4	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	31,101	ND	0.40	1	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alata	ND	0.50	1	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	alow	ND	0.40	1	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	*	mg/kg
1,2,4-Trichlorobenzene	ND	0.50	4		mg/kg	Pyrene		ND	0.40	4	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	4	mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Bulyl Benzyl Pl	hthalata	ND	0.50	4	mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	4	mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	4	mg/kg
2-Methylnaphthalene	ND	0.40	1		1.12			ND	0.50	1	
1-Methylnaphthalene	ND	0.40	1		mg/kg mg/kg	Bis(2-Ethylhex) Chrysene	yı) ı-ıımalale	ND	0.40	1	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.40	1	mg/kg mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1	mg/kg
2-Mitroaniline	ND	0.50	1			The second second second second second		ND	0.40	1	
Dimethyl Phihalate	ND	0.50	4		mg/kg	Benzo (a) Pyre		ND	0.40	4	mg/kg
	ND	0.40	1		mg/kg	Indena (1,2,3-c		ND	0.40		mg/kg
Acenaphthylene					mg/kg	Dibenz (a,h) A				1	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1	mg/kg
Acenaphthene	ND	0.40	1	N. W. D.	mg/kg	2 Latings			4	4.7	
Surrogates:	REC (%)	Control Limits		Oua		Surrogates:		REC (%)	Control Limits	Qual	
2-Fluorophenol	90	31-142				Phenol-d6		98	30-136		
Vitrobenzene-d5	95	28-139	O.			2-Fluorobipher		93	33-144		
2,4,6-Tribromophenol	86	24-152				p-Terphenyl-d	4	93	23-160		

RL - Reporting Limit ,

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method:

02-01-0947 EPA 3545

01/23/02

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sample mber	9	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bat	ch ID
\$B-20-7			02-0	1-094	7-6	01/23/02	Solid	01/23/02	01/24/02	020123	16
Parameter	Result	RL	<u>DE</u>	Qual	<u>Units</u>	Parameter		Result	RL	DF Qual	<u>Units</u>
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1	mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1	mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1	mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl			0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	, many, manual	ND	0.40	4	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1	mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	4		mg/kg	2,4,6-Trichloro		ND	0.50	1	mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	1	mg/kg
Nitrobenzene	ND	2.5	4		mg/kg	Hexachloroben	THE PARTY OF THE P	ND	0.50	4	mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophi		ND	2.5	1	mg/kg
2-Nitrophenot	ND	0.50	1		mg/kg	Phenanthrene	ario,	ND	0.40	1	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1	mg/kg
Benzoic Acid	ND	2.5	4		mg/kg	Di-n-Butyl Phth	alata	ND	0.50	1	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	alate	ND.	0.40	1	mg/kg
	ND	0.50	1			Benzidine		ND	10	1	mg/kg
2,4-Dichlorophenol 1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg mg/kg	Pyrene		ND	0.40	4	mg/kg
		0.40	1			Pyridine		ND	0.50	1	
Naphthalene	ND	100.717.74	1		mg/kg	The state of the s	the late		0.50	1	mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pl		ND	1-20	1	mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1.0		mg/kg	3,3'-Dichlorobe	Section 1 to 1	ND	0.50		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1	mg/kg
2-Methylnaphthalene	ND	0.40			mg/kg	Bis(2-Ethylhex	yi) Phinalale	ND	0.50	100	mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	-1-1-	ND	0.40	1	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth		ND	0.50	1	mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1	mg/kg
2-Nitroanlline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1	mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A		ND	0.40	1	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1	mg/kg
Acenaphthene	ND	0.40	1		mg/kg						
Surrogates:	REC (%)	<u>Control</u> <u>Limits</u>		Qual		Surrogates:		REC (%)	<u>Contral</u> <u>Limits</u>		1
2-Fluorophenol	87	31-142				Phenol-d6		90	30-136		
Nitrobenzene-d5	89	28-139				2-Fluorobipher	ıyl	86	33-144		
2,4,6-Tribromophenol	78	24-152				p-Terphenyl-d		84	23-160		

RL - Reporting Limit

UF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

01/23/02 Work Order No: 02-01-0947

Preparation:

EPA 3545

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	ch ID
SB-13-0.5			02-	01-094	7-9	01/23/02	Solid	01/23/02	01/24/02	0	20123	6
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DE	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kġ	2,4-Dinitrophen	of	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
3is(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalat		ND	0.50	1		mg/kg
,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-			0.50	1		mg/kg
Benzyl Alcohol	ND	0,50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	NO	0.50	1		mg/kg	4,6-Dinitro-2-Me	thylohenol	ND	2.5	1		mg/kg
8/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodipher		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/kg
lexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	1		mg/kg
Vitrobenzene	ND	2.5			mg/kg	Hexachlorobena		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	4		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	- 1		mg/kg	Anthracene		ND	0.40	1		mg/k
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phih:	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	31010	ND	0.40	- 1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	4		mg/kg	Pyridine		ND	0.50	1		mg/kg
1-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Ph	thalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	- 1		mg/kg	Benzo (a) Anthi		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexy		ND	0.50	1		mg/kg
I-Methylnaphthalene	ND	0.40	4		mg/kg	Chrysene	i) i ilaididid	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	4		mg/kg	Benzo (b) Fluor		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/k
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/k
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) An	and the second second	ND	0.40	1		mg/k
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Po		ND	0.40	1		mg/k
Acenaphthene	ND	0.40	1		mg/kg	Dones (9,11,1)	- yiono	110	UMU			ingra)
Surrogates:	REC (%)	Control		Qua	1	Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	92	<u>Limits</u> 31-142				Phenol-d6		96	30-136			
	94						úl	91				
Nitrobenzene-d5		28-139				2-Fluorobiphen			33-144			
2,4,6-Tribromophenol	84	24-152				p-Terphenyl-d1	4	89	23-160			

RL - Reporting Limit .

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/23/02 02-01-0947 EPA 3545 EPA 8270C

LFA 02/00

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sample mber		Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
SB-13-7			02-0	1-0947-	10	01/23/02	Solid	01/23/02	01/24/02	O.	20123	6
Parameter	Result	RL	<u>DE</u>	Qual L	<u>Jnits</u>	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1	m	ng/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		ng/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenoi	ND	0.50	1		ng/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		ng/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
-Chlorophenol	ND	0.50	1		ng/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
,3-Dichlorobenzene	ND	0.50	1		ng/kg	Diethyl Phthala		ND	0.50	1		mg/kg
,4-Dichlorobenzene	ND	0.50	1		ng/kg	4-Chlorophenyl		ND	0,50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		ig/kg	Fluorene	. me.gme.	ND	0.40	1		mg/kg
,2-Dichlorobenzene	ND	0.50	1		ng/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		ng/kg	Azobenzene		ND	0.50	1		mg/kg
dis(2-Chloroisopropyi) Ether	ND	0.50	1		ng/kg	4,6-Dinitro-2-Me	Ionaddivdte	ND	2.5	1		mg/kg
8/4-Methylphenol	ND	0.50	1		ng/kg	N-Nitrosodiphei		ND	0,50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		ıg/kg	2,4,6-Trichlorop	0.46	ND	0.50	1		mg/kg
lexachloroethane	ND	0.50	1		ng/kg	4-Bromophenyl		ND	0.50	1		mg/kg
Vitrobenzene	ND	2.5	1		ng/kg	Hexachloroben	The state of the s	ND	0.50	1		mg/kg
sophorone	ND	0.50	1		ng/kg	Pentachlorophe	5-100	ND	2.5	1		mg/kg
-Nitrophenol	ND	0.50	1		ng/kg	Phenanthrene		ND	0.40	1		mg/kg
.4-Dimethylphenol	ND	0.50	1		ng/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		ng/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		ng/kg	Fluoranthene	200,73	ND	0.40	1		mg/kg
4-Dichlorophenol	ND	0.50	1		ng/kg	Benzidine		ND	10	4		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		ng/kg	Pyrene		ND	0.40	1		mg/kg
Vaphthalene	ND	0.40	1		ng/kg	Pyridine		ND	0.50	1		mg/kg
I-Chloroaniline	ND	0.50	1		ng/kg	Butyl Benzyl Ph	nthalate	ND	0.50	1		mg/kg
lexachloro-1,3-Butadiene	ND	0.50	1		ng/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		ng/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		ng/kg	Bis(2-Ethylhex)		ND	0.50	1		mg/kg
I-Methylnaphthalene	ND	0.40	1		ng/kg	Chrysene	W. 26. 21. 22. 22. 23.	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		ng/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		ng/kg	Benzo (k) Fluor		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		ng/kg	Benzo (b) Fluor		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0,50	1		ng/kg	Benzo (a) Pyre		ND	0.35	- 1		mg/kg
Dimethyl Phthalate	ND	0.50	1		ng/kg	Indeno (1,2,3-c		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		ng/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/kg
-Nitroaniline	ND	0.50	1		ng/kg	Benzo (g,h,i) P		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		ng/kg	ion ion	-4000	2.52	37.27			
Surrogates:	REC (%)	Control Limits		Qual	-	Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	93	31-142				Phenol-d6		98	30-136			
Nitrobenzene-d5	93	28-139				2-Fluorobiphen	vi	92	33-144			
2,4,6-Tribromophenol	84	24-152				p-Terphenyl-d1		90	23-160			

RL - Reporting Limit ,

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No:

01/23/02 02-01-0947

Preparation: Method: EPA 3545 EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number			Lab S Nur	Sample mber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
SB-11-0.5			02-0	1-094	7-13	01/23/02	Solid	01/23/02	01/24/02	0;	20123	6
Parameter	Result	RL	DF :	Qual	<u>Units</u>	Parameter		Result	RL	DE	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	NO	2.5	1		mg/kg	2,4-Dinitrototue	ne	ND	0.50	1		mg/k
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		NO	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl	Actual to the late of the late	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	4		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe	The state of the s	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben	and the second second	ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2,5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pl	nthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe	nzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth	racene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)	(I) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene		ND	0.40	1		mg/kg
Hexachlorocyclopentadlene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	NO	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo	ranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo	ranthene	ND	0.40	1		mg/k
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre	ne	ND	0.35	1		mg/kg
Dimethyl Phthalate	NO	0.50	1		mg/kg	Indeno (1,2,3-c	d) Pyrene	ND	0.40	1		mg/k
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar	nthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg							
Surrogates:	REC (%)	Control		Qual		Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	90	31-142				Phenol-d6		95	30-136			
Nitrobenzene-d5	93	28-139				2-Fluorobipher	VI.	91	33-144			
2,4,6-Tribromophenol	81	24-152				p-Terphenyl-d1	5.0	90	23-160			

RL - Reporting Limit ,

DF - Dilution Factor .

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method:

02-01-0947 EPA 3545 EPA 8270C

01/23/02

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number			Lab S Nur	iample nber	Ð	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	ch ID
SB-11-7			02-0	1-094	7-14	01/23/02	Solid	01/23/02	01/24/02	O	20123	6
Parameter	Result	RL	<u>DE</u>	Qual	Units	Parameter		Result	RL	DE	Qual	<u>Units</u>
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinifrophen	o)	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	(2)	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	4.25	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	a residence	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	1		mg/k
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben	The second second	ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe	enol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/k
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/k
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/k
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/k
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chioroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pl	nthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	7		mg/kg	3,3'-Dichlorobe	nzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth	racene	ND	0.40	1		mg/k
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex	yl) Phthalate	ND	0.50	1		mg/k
1-Methyinaphthalene	ND	0.40	1		mg/kg	Chrysene		ND	0.40	1		mg/k
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	nalate	ND	0.50	1		mg/k
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1		mg/k
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/k
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre	ne	ND	0.35	1		mg/k
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/k
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ai	nthracene	ND	0.40	1		mg/k
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1		mg/k
Acenaphthene	ND	0.40	1		mg/kg	3.00 - 88000						
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	88	31-142				Phenol-d6		92	30-136			
Nitrobenzene-d5	91	28-139				2-Fluorobipher	W	88	33-144			
2,4,6-Tribromophenol	77	24-152				p-Terphenyl-d		87	23-160			

RL - Reporting Limit ,

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240

Long Beach, CA 90802-4432

Date Received:

01/23/02

Work Order No:

02-01-0947

Preparation:

EPA 3545

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Batch	n ID
SB-10-0.5			02-	01-094	7-17	01/23/02	Solid	01/23/02	01/24/02	020	1236	
<u>Parameter</u>	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DE C	ual	<u>Units</u>
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropher	ioi	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ne	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chloropheny			0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	(1.504)21-0100	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	7		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro	0.70400000	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	- 1		mg/kg	4-Bromopheny			0.50	1		mg/kg
Nitrobenzene	ND	2,5	1		mg/kg	Hexachloroben	A CONTRACTOR OF THE PARTY OF TH	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachloroph	Control of the Contro	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	arro.	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	4		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	4		mg/kg	Fluoranthene	iaiau,	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	4		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	4		mg/kg	Pyrene		ND	0.40	*		mg/kg
Naphthalene	ND	0.40	4		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl P	hthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	4		mg/kg	Benzo (a) Anth	Charles and the	ND	0.40	4		mg/kg
2-Methylnaphthalene	ND	0.40	4		mg/kg	Bis(2-Ethylhex		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		100	Chrysene	yı) Filitalate	ND	0.40	1		mg/kg
	ND	1.5			mg/kg	Di-n-Octyl Phti	nalata	ND	0.50	1		7.0
Hexachlorocyclopentadiene 2,4,5-Trichlorophenol	ND	0.50	1		mg/kg mg/kg	Benzo (k) Fluo		ND	0.40	1		mg/kg mg/kg
			4			Benzo (b) Fluo		ND	0.40	1		
2-Chloronaphthalene 2-Nitroaniline	ND ND	0.50	1		mg/kg	Benzo (a) Pyre	and the second	ND	0.40	1		mg/kg mg/kg
	ND	0.50	4		mg/kg	The second secon		ND	0.35	1		
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-	14. 3 OLO P. 10.	ND	0.40	1		mg/kg
Acenaphthylene	71 70-4-7		1		mg/kg	Dibenz (a,h) A						mg/kg
3-Nitroaniline Acenaphthene	ND ND	0.50	1		mg/kg	Benzo (g,h,i) P	cryiene	ND	0.40	1		mg/kg
-302707-60203929		0.40		-	mg/kg	Washington College			2000			
Surrogates:	REC (%)	<u>Control</u> <u>Limits</u>		Qua	1	Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	74	31-142				Phenol-d6		79	30-136			
Nitrobenzene-d5	75	28-139				2-Fluorobipher		77	33-144			
2,4,6-Tribromophenol	65	24-152				p-Terphenyl-d	14	79	23-160			

RL - Reporting Limit

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/23/02 02-01-0947 EPA 3545 EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	OC E	Batch ID
58-10-7			02-	01-094	17-18	01/23/02	Solid	01/23/02	01/24/02	020	235
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DE Q	al Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropheno	ni le	ND	2.5	1	mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1	mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluer	ne	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluer		ND	0.50	1	mg/k
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalat		ND	0.50	1	mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-			0.50	1	mg/k
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	, nony, care,	ND	0.40	1	mg/k
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroanlline		ND	0.50	1	mg/k
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/k
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	thylphenol	ND	2.5	1	mg/k
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodipher		ND	0.50	1	mg/k
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	4	mg/k
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-			0,50	4	mg/k
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenz		ND	0.50		mg/k
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	4	mg/k
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	1101	ND	0.40	1	mg/k
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1	mg/k
Benzoic Acid	ND	2.5	4		mg/kg	Di-n-Butyl Phtha	alate	ND	0.50	4	mg/k
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	alata	ND	0.40	1	mg/k
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	4	mg/k
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1	mg/k
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1	mg/k
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Ph	thalata	ND	0.50	1	mg/k
Hexachloro-1,3-Butadiene	ND	0.50	4		mg/kg	3,3'-Dichlorober		ND	0.50	4	mg/k
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg			ND	0.40	4	
2-Methylnaphthalene	ND	0.40	1			Benzo (a) Anthr		ND	0.50	4	mg/k
1-Methylnaphthalene	ND	0.40			mg/kg mg/kg	Bis(2-Ethylhexy Chrysene	i) Finnalate	ND	0.40	2	mg/k
Hexachlorocyclopentadiene	ND	1.5	1			Di-n-Octyl Phtha	ninto	ND	0.40	4	mg/k
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg mg/kg	Benzo (k) Fluor		ND	0.50	4	mg/k
2,4,5-1 inchlorophenol 2-Chloronaphthalene	ND	0.50	1					ND	0.40		mg/k
2-Nitroaniline	ND	0.50	4		mg/kg	Benzo (b) Fluor				4	mg/k
2-Nitroaniline Dimethyl Phthalate	ND	0.50	1		mg/kg	Benzo (a) Pyrer		ND ND	0.35	1	mg/k
Acenaphthylene	ND	0.40	3		mg/kg	Indeno (1,2,3-c,		ND	0.40	1	mg/k
a 1,444	942		4		mg/kg	Dibenz (a,h) An		CONTRACT .	33.30		mg/k
3-Nitroaniline Acenaphthene	ND ND	0.50	1		mg/kg mg/kg	Benzo (g,h,i) Pe	erylene	ND	0.40	1	mg/k
Surrogates;	REC (%)	Control		Qua		Surrogates:		REC (%)	Control	Q	ual
		Limits						C 23	Limits		
2-Fluorophenol	73	31-142				Phenol-d6		77	30-136		
Nitrobenzene-d5	74	28-139				2-Fluorobiphen		74	33-144		
2,4,6-Tribromophenol	59	24-152	Si.			p-Terphenyl-d1	4	74	23-160		

RL - Reporting Limit ,

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240

Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation: 01/23/02 02-01-0947 EPA 3545

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	C	C Bato	th ID
Method Blank			099	-04-01	0-1,175	N/A	Solid	01/23/02	01/24/02		20123	8
Parameter	Result	RL	DE	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	<u>Units</u>
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ne	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl			0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroanlline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro	100	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben	TO THE PARTY OF TH	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophe	G. A. C. C.	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	1000	ND	0.40	4		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzolc Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Napnthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl P	hthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	,,, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ND	0.40	4		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phil	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50			mg/kg	Indeno (1,2,3-0		ND	0.40	-1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A	ALL DONNERS OF THE PARTY OF THE	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	Delico (Alith)	S. J.O. G	110	0,40			mg/kg
Surrogates:	REC (%)	Control		Qua		Surrogates:		REC (%)	Control		Qual	
		Limits							Limits			
2-Fluorophenol	108	31-142				Phenol-d6		114	30-136			
Nitrobenzene-d5	107	28-139				2-Fluorobipher		100	33-144			
2,4,6-Tribromophenol	103	24-152				p-Terphenyl-d	14	100	23-160	2		

RL - Reporting Limit ,

DF - Dilution Factor .

Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

02-01-0947 N/A

01/23/02

Method:

EPA TO-14A

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number			100000000000000000000000000000000000000	Sample mber	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Ba	atch ID
\$G-10-20		r hilmip	02-0	11-0947-21	01/23/02	Alt	NIA:	01/23/02	K020	123A
Parameter	Result	RL	DF	Qual Units	Parameter		Result	RL	DF Qua	units
Dichlorodifluoromethane	1.3	0.6	1.34	ppb (v/v)	1,1,2-Trichloro	ethane	ND	0.67	1.34	ppb (v/v)
Chloromethane	ND	0.67	1.34		Toluene		9.2	0.6	1.34	ppb (v/v)
1,2-Dichloro-1,1,2,2-Tetrafluoro ethane	ND	2.7	1.34	ppb (v/v)	Trichloroethene	9	ND	0.67	1.34	ppb (v/v)
Vinyl Chloride	ND	0.67	1.34	ppb (v/v)	1,2-Dibromoeth	ane	ND	0.67	1.34	ppb (v/v)
Bromomethane	ND	0.67	1.34		Tetrachloroethe	ene	740	11	21.4 D	ppb (v/v)
Chloroethane	ND	0.67	1.34	ppb (v/v)	Chlorobenzene		ND	0.67	1.34	ppb (v/v)
Trichlorofluoromethane	0.68	0.67	1.34		Ethylbenzene		5.4	0.6	1.34	ppb (v/v)
1,1-Dichloroethene	ND	0.67	1.34	ppb (v/v)	p/m-Xylene		30	1	1.34	ppb (v/v)
Methylene Chloride	ND	2.7	1.34	ppb (v/v)	Styrene		ND	1.3	1,34	ppb (v/v)
1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	1.3	1.34	ppb (v/v)	1,1,2,2-Tetrach	loroethane	ND	0.67	1.34	ppb (v/v)
1,1-Dichloroethane	ND	0.67	1.34	ppb (v/v)	o-Xylene		20	0.67	1.34	ppb (v/v)
c-1,2-Dichloroethene	ND	0.67	1.34	ppb (v/v)	1,3,5-Trimethyl	Ibenzene	28	0.67	1.34	ppb (v/v)
Chloroform	ND	0.67	1.34	ppb (v/v)	1,2,4-Trimethy	benzene	370	11	21.4 D	ppb (v/v)
1,2-Dichloroethane	ND	0.67	1.34	ppb (v/v)	Benzyl Chloride	e	ND	0.67	1.34	ppb (v/v)
1,1,1-Trichloroethane	0.98	0.67	1.34	ppb (v/v)	1,3-Dichlorobe	nzene	ND	0.67	1.34	ppb (v/v)
Benzene	0.94	0.67	1.34		1,4-Dichlorobe	nzene	ND	0.67	1.34	ppb (v/v)
Carbon Tetrachloride	ND	0.67	1,34	ppb (v/v)	1,2-Dichlorobe	nzene	ND	0.67	1.34	ppb (v/v)
1,2-Dichloropropane	ND	0.67	1.34	ppb (v/v)	1,2,4-Trichlorol	benzene	ND	0.67	1.34	ppb (v/v)
c-1,3-Dichloropropene	ND	0.67	1.34	A 1971 C.	Hexachloro-1,3	I-Butadiene	ND	0.67	1.34	ppb (v/v)
t-1,3-Dichloropropene	ND	0.67	1.34	ppb (v/v)						

RL - Reporting Limit .

DF - Dilution Factor



Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/23/02 02-01-0947 N/A

Method:

EPA TO-14A

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				ample nber	Date Collected	Matrix	Date Prepared	Date Analyzed	QC B	atch ID
SG-10-10	E-1	11	02-0	1-0947-22	01/23/02	Air	NA	01/23/02	K020	123A
Parameter	Result	RL	DE S	Qual Units	Parameter		Result	RL	DF Qua	al Units
Dichlorodifluoromethane	0.92	0.58	1.35	ppb (v/v)	1,1,2-Trichloros	thane	ND	0.68	1.35	ppb (v/v
Chloromethane	ND	0.68	1.35	ppb (v/v)	Toluene		26	0.68	1.35	ppb (v/v
1,2-Dichloro-1,1,2,2-Tetrafluoro ethane	ND	2.7	1.35	ppb (v/v)	Trichloroethene		ND	0.68	1.35	ppb (v/v
Vinyl Chloride	ND	0.68	1.35	ppb (v/v)	1,2-Dibromoeth	ane	ND	0.68	1.35	ppb (v/v
Bromomethane	ND	0.68	1.35	ppb (v/v)	Tetrachloroethe	ne	170	2	5.4 D	ppb (v/v
Chloroethane	ND	0.68	1.35	ppb (v/v)	Chlorobenzene		ND	0.68	1.35	ppb (v/v
Trichlorofluoromethane	ND	0.68	1.35	ppb (v/v)	Ethylbenzene		9.7	0.6	1.35	ppb (v/v
1,1-Dichloroethene	ND	0.68	1.35	ppb (v/v)	p/m-Xylene		47	1	1.35	ppb (v/v
Methylene Chloride	ND	2.7	1.35	ppb (v/v)	Styrene		ND	1.4	1.35	ppb (v/v
1,1,2-Trichloro-1,2,2-Trifluoroeth ane	ND	1.4	1.35	ppb (v/v)	1,1,2,2-Tetrachi	oroethane	ND	0.68	1.35	ppb (v/v
1,1-Dichloroethane	ND	0.68	1.35	ppb (v/v)	a-Xylene		19	0.68	1.35	ppb (v/v
c-1,2-Dichloroethene	ND	0.68	1.35	ppb (v/v)	1,3,5-Trimethyll	oenzene	11	0.68	1.35	ppb (v/v
Chloroform	ND	0.68	1.35	ppb (v/v)	1,2,4-Trimethyll	penzene	21	0.68	1.35	ppb (v/v
1,2-Dichloroethane	ND	0.68	1.35	ppb (v/v)	Benzyl Chloride		ND	0.68	1.35	ppb (v/v
1,1,1-Trichloroethane	ND	0.68	1.35	ppb (v/v)	1,3-Dichloroben	zene	ND	0.68	1.35	ppb (v/v
Benzene	1.9	0.6	1.35	ppb (v/v)	1,4-Dichloroben	zene	ND	0.68	1.35	ppb (v/v
Carbon Tetrachloride	ND	0,68	1.35	ppb (v/v)	1,2-Dichlorober		ND	0.68	1.35	ppb (v/v
1,2-Dichloropropane	ND	0.68	1.35	ppb (v/v)	1,2,4-Trichlorob	enzene	ND	0.68	1.35	ppb (v/v
c-1,3-Dichloropropene t-1,3-Dichloropropene	ND ND	0.68 0.68	1.35 1.35	ppb (v/v) ppb (v/v)	Hexachloro-1,3-	Butadiene	ND	0.68	1.35	ppb (v/v

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

02-01-0947 N/A

01/23/02

Method:

EPA TO-14A

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number			Lab Sa Numi	0.000	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Ba	atch ID
SG-4-20			02-01-0947-23		01/23/02	Air	NIA	01/23/02	K020	123A
Parameter	Result	RL	DF Q	ual Units	Parameter		Result	RL	DF Qua	<u>Units</u>
Dichlorodifluoromethane	15	0.70	1.39	ppb (v/v)	1,1,2-Trichloro	ethane	ND	0.70	1.39	ppb (v/v)
Chloromethane	ND	0.70	1.39	ppb (v/v)	Toluene		4.6	0.7	1.39	ppb (v/v)
1,2-Dichloro-1,1,2,2-Tetrafluoro ethane	ND	2.8	1.39	ppb (v/v)	Trichloroethene	3	ND	0.70	1.39	ppb (v/v)
Vinyl Chloride	ND	0.70	1.39	ppb (v/v)	1,2-Dibromoeth	nane	ND	0.70	1.39	ppb (v/v)
Bromomethane	ND	0.70	1.39	ppb (v/v)	Tetrachloroethe	ene	9.3	0.7	1.39	ppb (v/v)
Chloroethane	ND	0.70	1.39	ppb (v/v)	Chlorobenzene		ND	0.70	1.39	ppb (v/v)
Trichlorofluoromethane	ND	0.70	1.39	ppb (v/v)	Ethylbenzene		4.1	0.7	1,39	ppb (v/v)
1,1-Dichloroethene	ND	0.70	1.39	ppb (v/v)	p/m-Xylene		21	1	1.39	ppb (v/v)
Methylene Chloride	ND	2.8	1,39	ppb (v/v)	Styrene		ND	1.4	1.39	ppb (v/v)
1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	1.4	1.39	ppb (v/v)	1,1,2,2-Tetrach	loroethane	ND	0.70	1.39	ppb (v/v)
1,1-Dichloroethane	ND	0.70	1.39	ppb (v/v)	o-Xylene		9.6	0.7	1.39	ppb (v/v)
c-1,2-Dichloroethene	ND	0.70	1.39	ppb (v/v)	1,3,5-Trimethyl	benzene	2.3	0.7	1.39	ppb (v/v)
Chioroform	ND	0.70	1.39	ppb (v/v)	1,2,4-Trimethyl	benzene	4.9	0.7	1.39	ppb (v/v)
1,2-Dichloroethane	ND	0.70	1.39	ppb (v/v)	Benzyl Chloride	9	ND	0.70	1.39	ppb (v/v)
1,1,1-Trichloroethane	1.0	0.7	1.39	ppb (v/v)	1,3-Dichlorobe	nzene	ND	0.70	1.39	ppb (v/v)
Benzene	ND	0.70	1.39	ppb (v/v)	1,4-Dichlorobe	nzene	ND	0.70	1.39	ppb (v/v)
Carbon Tetrachloride	ND	0.70	1.39	ppb (v/v)	1,2-Dichlorobe	nzene	ND	0.70	1.39	ppb (v/v)
1,2-Dichloropropane	ND	0.70	1.39	ppb (v/v)	1,2,4-Trichloro	benzene	ND	0.70	1.39	ppb (v/v)
c-1,3-Dichloropropene	ND	0.70	1.39	ppb (v/v)	Hexachloro-1,3	-Butadiene	ND	0.70	1.39	ppb (v/v)
t-1,3-Dichloropropene	ND	0.70	1.39	ppb (v/v)						

RL - Reporting Limit

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation: 01/23/02 02-01-0947 N/A

Method:

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Client Sample Number				ample nber	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Ba	tch ID
SG-4-10			02-0	1-0847-24	01/23/02	Air	N/A	01/23/02	K020	123A
Parameter	Result	RL	DF :	Qual Units	Parameter		Result	RL	DF Qua	Units
Dichlorodifluoromethane	10	0.70	1.39	ppb (v/v)	1,1,2-Trichloroe	thana	ND	0.70	1.39	ppb (v/v)
Chloromethane	ND	0.70	1.39	ppb (v/v)	Toluene		3.8	0.7	1.39	ppb (v/v)
1,2-Dichloro-1,1,2,2-Tetrafluoro ethane	ND	2.8	1.39	ppb (v/v)	Trichloroethene		ND	0.70	1.39	ppb (v/v)
Vinyl Chloride	ND	0.70	1.39	ppb (v/v)	1,2-Dibromoeth	ane	ND	0.70	1.39	ppb (v/v)
Bromomethane	ND	0.70	1.39	ppb (v/v)	Tetrachloroethe	епе	4.3	0.7	1.39	ppb (v/v)
Chloroethane	ND	0.70	1.39	ppb (v/v)	Chlorobenzene		ND	0.70	1.39	ppb (v/v)
Trichlorofluoromethane	ND	0.70	1.39	ppb (v/v)	Ethylbenzene		2.7	0.7	1.39	ppb (v/v)
1,1-Dichloroethene	ND	0.70	1.39	ppb (v/v)	p/m-Xylene		16	1	1,39	ppb (v/v)
Methylene Chloride	ND	2.8	1.39	ppb (v/v)	Styrene		ND	1.4	1.39	ppb (v/v)
1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	1.4	1.39	ppb (v/v)	1,1,2,2-Tetrach	loroethane	ND	0.70	1.39	ppb (v/v)
1,1-Dichloroethane	ND	0.70	1.39	ppb (v/v)	o-Xylene		8.7	0.7	1.39	ppb (v/v)
c-1,2-Dichloroethene	ND	0.70	1.39	ppb (v/v)	1,3,5-Trimethyll	benzene	3.0	0.7	1.39	ppb (v/v)
Chloroform	ND	0.70	1.39	ppb (v/v)	1,2,4-Trimethyll	benzene	5.7	0.7	1.39	ppb (v/v)
1,2-Dichloroethane	ND	0.70	1.39	ppb (v/v)	Benzyl Chloride	,	ND	0.70	1.39	ppb (v/v)
1,1,1-Trichloroethane	ND	0.70	1.39	ppb (v/v)	1,3-Dichlorober	zene	NO	0.70	1.39	ppb (v/v)
Benzene	ND	0.70	1.39	ppb (v/v)	1,4-Dichlorober	nzene	ND	0.70	1.39	ppb (v/v)
Carbon Tetrachloride	ND	0.70	1.39	ppb (v/v)	1,2-Dichlorober	nzene	ND	0.70	1.39	ppb (v/v)
1,2-Dichloropropane	ND	0.70	1.39	ppb (v/v)	1,2,4-Trichlorot	enzene	ND	0.70	1.39	ppb (v/v)
c-1,3-Dichloropropene	ND	0.70	1.39	ppb (v/v)	Hexachloro-1,3	-Butadiene	ND	0.70	1.39	ppb (v/v)
t-1,3-Dichloropropene	ND	0.70	1.39	ppb (v/v)						4250 4000



Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/23/02 02-01-0947

Method:

N/A EPA TO-14A

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sample mber	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Ba	atch ID
SG-11-9D			02-01-0947-25		01/23/02	01/23/02 Air		01/23/02	K020	123A
Parameter	Result	RL	DF	Qual Units	Parameter		Result	RL	DF Qua	units
Dichlorodifluoromethane	1.8	0.7	1.39	ppb (v/v)	1,1,2-Trichloroe	ethane	ND	0.70	1.39	ppb (v/v)
Chloromethane	ND	0.70	1.39		Toluene		16	0.70	1.39	ppb (v/v)
1,2-Dichloro-1,1,2,2-Tetrafluoro ethane	ND	2.8	1.39	ppb (v/v)	Trichloroethene	1	3,8	0.7	1.39	ppb (v/v)
Vinyl Chloride	ND	0.70	1.39	ppb (v/v)	1,2-Dibromoeth	iane	ND	0.70	1.39	ppb (v/v)
Bromomethane	ND	0,70	1.39		Tetrachloroethe	ene	840	14	27.8 D	ppb (v/v)
Chloroethane	ND	0.70	1.39	ppb (v/v)	Chlorobenzene		ND	0.70	1.39	ppb (v/v)
Trichlorofluoromethane	0.78	0.70	1.39	ppb (v/v)	Ethylbenzene		4.9	0.7	1.39	ppb (v/v)
1,1-Dichloroethene	ND	0.70	1.39	ppb (v/v)	p/m-Xylene		27	1	1.39	ppb (v/v)
Methylene Chloride	ND	2.8	1.39	ppb (v/v)	Styrene		ND	1.4	1.39	ppb (v/v)
1,1,2-Trichloro-1,2,2-Trifluoroetf ,ne	ND	1.4	1.39	ppb (v/v)	1,1,2,2-Tetrach	loroethane	ND	0.70	1.39	ppb (v/v)
1,1-Dichtoroethane	ND	0.70	1.39	ppb (v/v)	o-Xylene		12	0.70	1.39	ppb (v/v)
c-1,2-Dichloroethene	ND	0.70	1.39	ppb (v/v)	1,3,5-Trimethyl	benzene	7.0	0.7	1.39	ppb (y/v)
Chloroform	ND	0.70	1.39	ppb (v/v)	1,2,4-Trimethyl	benzene	15	0.70	1.39	ppb (v/v)
1,2-Dichloroethane	ND	0.70	1.39	ppb (v/v)	Benzyl Chloride	9	ND	0.70	1.39	ppb (v/v)
1,1,1-Trichloroethane	0.95	0.70	1,39	ppb (v/v)	1,3-Dichlorober	zene	ND	0.70	1.39	ppb (v/v)
Benzene	1.5	0.7	1.39	ppb (v/v)	1,4-Dichlorober	zene	ND	0.70	1.39	ppb (v/v)
Carbon Tetrachloride	ND	0.70	1,39	ppb (v/v)	1,2-Dichlorober	nzene	ND	0.70	1.39	ppb (v/v)
1,2-Dichloropropane	ND	0.70	1.39	ppb (v/v)	1,2,4-Trichlorob	enzene	ND	0.70	1.39	ppb (v/v)
c-1,3-Dichloropropene	ND	0.70	1,39	ppb (v/v)	Hexachloro-1,3	-Butadiene	ND	0.70	1.39	ppb (v/v)
t-1,3-Dichloropropene	ND	0.70	1.39	ppb (v/v)						

RL - Reporting Limit

DF - Dilution Factor .



Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation: 01/23/02 02-01-0947 N/A

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Client Sample Number				ample nber	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Ba	itch ID
SG-15-20D			02-01-0947-28		01/23/02 Air		N/A	01/25/02	K020	125A
Parameter	Result	RL	DF .	Qual Units	Parameter		Result	RL	DF Que	l Units
Dichlorodifluoromethane	ND	2.8	5.56	ppb (v/v)	1,1,2-Trichloroe	ethane	ND	2.8	5.56	ppb (v/v)
Chloromethane	ND	2.8	5.56	ppb (v/v)	Toluene		12	2	5.56	ppb (v/v)
1,2-Dichloro-1,1,2,2-Tetrefluoro ethane	ND	11	5.56	ppb (v/v)	Trichloroethene	•	ND	2.8	5.56	ppb (v/v)
Vinyl Chloride	ND	2.8	5.56	ppb (v/v)	1,2-Dibromoeth	nane	ND	2.8	5.56	ppb (v/v)
Bromomethane	ND	2.8	5.56	ppb (v/v)	Tetrachloroethe	ene	460	14	27.8 D	ppb (v/v)
Chloroethane	ND	2.8	5.56	ppb (v/v)	Chlorobenzene		ND	2.8	5.56	ppb (v/v)
Trichlorofluoromethane	ND	2.8	5,56	ppb (v/v)	Ethylbenzene		44	2	5.56	ppb (v/v)
1,1-Dichloroethene	ND	2.8	5.56	ppb (v/v)	p/m-Xylene		160	5	5.56	ppb (v/v)
Methylene Chloride	ND	11	5.56	ppb (v/v)	Styrene		ND	5.6	5.56	ppb (v/v)
1,1,2-Trichloro-1,2,2-Trifluoroett .ne	ND	5.6	5.56	ppb (v/v)	1,1,2,2-Tetrach	loroethane	ND	2.8	5.56	ppb (v/v)
1,1-Dichloroethane	ND	2.8	5.56	ppb (v/v)	o-Xylene		73	2	5.56	ppb (v/v)
c-1,2-Dichloroethene	ND	2.8	5.56	ppb (v/v)	1,3,5-Trimethyl	benzene	ND	2.8	5.56	ppb (v/v)
Chloroform	ND	2.8	5.56	ppb (v/v)	1,2,4-Trimethyl	benzene	3.0	2.8	5.56	ppb (v/v)
1,2-Dichloroethane	ND	2.8	5.56	ppb (v/v)	Benzyl Chloride	3	ND	2.8	5.56	ppb (v/v)
1.1,1-Trichloroethane	ND	2.8	5.56	ppb (v/v)	1,3-Dichlorober	nzene	ND	2.8	5.56	ppb (v/v)
Benzene	ND	2.8	5.56	ppb (v/v)	1,4-Dichlorobe	nzene	ND	2.8	5.56	ppb (v/v)
Carbon Tetrachloride	ND	2.8	5.56	ppb (v/v)	1,2-Dichlorober	nzene	ND	2.8	5.56	ppb (v/v)
1,2-Dichloropropane	ND	2.8	5.56	ppb (v/v)	1,2,4-Trichlorol	benzene	ND	2.8	5.56	ppb (v/v)
c-1,3-Dichloropropene	ND	2.8	5.56	ppb (v/v)	Hexachloro-1,3	-Butadiene	ND	2.8	5.56	ppb (v/v)
t-1,3-Dichloropropene	ND	2.8	5.56	ppb (v/v)						

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/23/02 02-01-0947 N/A

Method:

EPA TO-14A

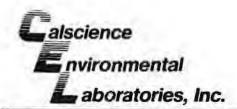
Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				ample nber	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Ba	itch ID
SG-16-10D			02-01-0947-27		01/23/02	Air	WA	01/23/02	K020	123A
Parameter	Result	RL	DF :	Qual Units	Parameter		Result	RL	DF Qua	Units
Dichlorodifluoromethane	1.5	0.7	1.39	ppb (v/v)	1,1,2-Trichloroe	ethane	ND	0.70	1.39	ppb (v/v)
Chloromethane	ND	0.70	1.39	ppb (v/v)	Toluene		6.6	0.7	1.39	ppb (v/v)
1,2-Dichtoro-1,1,2,2-Tetrafluoro ethane	ND	2.8	1.39	ppb (v/v)	Trichloroethene	•	1.4	0.7	1.39	ppb (v/v)
Vinyl Chloride	ND	0.70	1.39	ppb (v/v)	1,2-Dibromoeth	ane	ND	0.70	1.39	ppb (v/v)
Bromomethane	ND	0.70	1,39	ppb (v/v)	Tetrachloroethe	ene	360	7	13.9 D	ppb (v/v)
Chloroethane	ND	0.70	1.39	ppb (v/v)	Chlorobenzene	6	ND	0.70	1.39	ppb (v/v)
Trichlorofluoromethane	0.72	0.70	1.39	ppb (v/v)	Ethylbenzene		67	0.70	1.39	ppb (v/v)
1,1-Dichloroethene	ND	0.70	1.39	ppb (v/v)	p/m-Xylene		260	14	13.9 0	ppb (v/v)
Methylene Chloride	ND	2.8	1.39	ppb (v/v)	Styrene		ND	1.4	1.39	ppb (v/v)
1,1,2-Trichloro-1,2,2-Trifluoroeth ine	ND	1.4	1.39	ppb (v/v)	1,1,2,2-Tetrach	loroethane	ND	0.70	1.39	ppb (v/v)
1,1-Dichloroethane	ND	0.70	1.39	ppb (v/v)	o-Xylene		110	7	13.9 D	ppb (v/v)
c-1,2-Dichloroethene	ND	0.70	1.39	ppb (v/v)	1,3,5-Trimethyl	benzene	2.0	0.7	1.39	ppb (v/v)
Chloroform	ND	0.70	1.39	ppb (v/v)	1,2,4-Trimethy	benzene	5.2	0.7	1.39	ppb (v/v)
1,2-Dichloroethane	ND	0.70	1.39	ppb (v/v)	Benzyl Chloride	9	ND	0.70	1.39	ppb (v/v)
1,1,1-Trichloroethane	1.4	0.7	1.39	ppb (v/v)	1,3-Dichlorobe	nzene	ND	0.70	1.39	ppb (v/v)
Benzene	0.71	0.70	1.39	ppb (v/v)	1,4-Dichlorobs	nzene	ND	0.70	1.39	ppb (v/v)
Carbon Tetrachloride	ND	0.70	1.39	ppb (v/v)	1,2-Dichlorobe	nzene	ND	0.70	1.39	ppb (v/v)
1,2-Dichloropropane	ND	0.70	1.39	ppb (v/v)	1,2,4-Trichlorol	benzene	ND	0.70	1.39	ppb (v/v)
c-1,3-Dichloropropene	ND	0.70	1.39	ppb (v/v)	Hexachloro-1,3	-Butadiene	ND	0.70	1.39	ppb (v/v)
I-1,3-Dichloropropene	ND	0.70	1.39	ppb (v/v)						

RL - Reporting Limit

DF - Dilution Factor .



Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/23/02 02-01-0947 N/A

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Client Sample Number				Sample imber	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Ba	itch ID
SG-14-20D			02-01-0947-28		01/23/02	01/23/02 Air		01/23/02	23/02 K020123A	
<u>Parameter</u>	Result	RL	DE	Qual Units	Parameter		Result	RL	DF Qua	<u>Units</u>
Dichlorodifluoromethane	3.4	0.7	1.4	ppb (v/v)	1,1,2-Trichloro	ethane	ND	0.70	1.4	ppb (v/v)
Chloromethane	ND	0.70	1.4	The second second second	Toluene		4.5	0.7	1.4	ppb (v/v)
1,2-Dichloro-1,1,2,2-Tetrafluoro ethane	ND	2.8	1.4	ppb (v/v)	Trichloroethene	3	ND	0.70	1.4	ppb (v/v)
Vinyl Chloride	ND	0.70	1.4	ppb (v/v)	1,2-Dibromoeth	iane	ND	0.70	1.4	ppb (v/v)
Bromomethane	ND	0.70	1.4	ppb (v/v)	Tetrachloroethe	ene	110	2	5.6 D	ppb (v/v)
Chloroethane	ND	0.70	1.4	ppb (v/v)	Chlorobenzene	M. of the second	ND	0.70	1.4	ppb (v/v)
Trichlorofluoromethane	30	0.70	1.4	ppb (v/v)	Ethylbenzene		2.7	0.7	1.4	ppb (v/v)
1,1-Dichloroethene	ND	0.70	1.4	ppb (v/v)	p/m-Xylene		15	1	1.4	ppb (v/v)
Methylene Chloride	ND	2.8	1.4	ppb (v/v)	Styrene		ND	1.4	1.4	ppb (v/v)
1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	1.4	1.4	ppb (v/v)	1,1,2,2-Tetrach	loroethane	ND	0.70	1.4	ppb (v/v)
1,1-Dichloroethane	ND	0.70	1.4	ppb (v/v)	o-Xylene		6.3	0.7	1.4	ppb (v/v)
c-1,2-Dichloroethene	ND	0.70	1.4	ppb (v/v)	1,3,5-Trimethy	benzene	1.1	0.7	1.4	ppb (v/v)
Chloroform	ND	0.70	1.4	ppb (v/v)	1,2,4-Trimethy	benzene	2.6	0.7	1.4	ppb (v/v)
1,2-Dichloroethane	ND	0.70	1.4	ppb (v/v)	Benzyl Chloride	е	ND	0.70	1.4	ppb (v/v)
1,1,1-Trichloroethane	88.0	0.70	1.4	ppb (v/v)	1,3-Dichlorobe	nzene	ND	0.70	1.4	ppb (v/v)
Benzene	ND	0.70	1.4	ppb (v/v)	1,4-Dichlorobe	nzene	ND	0.70	1.4	ppb (v/v)
Carbon Tetrachloride	ND	0.70	1.4	ppb (v/v)	1,2-Dichlorobe	nzene	ND	0.70	1.4	ppb (v/v)
1,2-Dichloropropane	ND	0.70	1.4	ppb (v/v)	1,2,4-Trichloro	benzene	ND	0.70	1.4	ppb (v/v)
c-1,3-Dichloropropene	ND	0.70	1.4	ppb (v/v)	Hexachloro-1,3	3-Butadiene	ND	0.70	1.4	ppb (v/v)
t-1,3-Dichloropropene	ND	0.70	1.4	ppb (v/v)						

RL - Reporting Limit .

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation: 01/23/02 02-01-0947 N/A

Method:

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Client Sample Number				Sample umber	Date Collected	Matrix	Date Prepared	Date Analyzed	0	C Batch ID
Method Blank			095-01-021-1,573		N/A Alr	Alr	NIA	01/23/02	K	020123A
Parameter	Result	RL	DF	Qual Units	Parameter		Result	RL	DF	Qual Units
Dichlorodifluoromethane	ND	0.50	1	ppb (v/v)	1,1,2-Trichloroeti	nane	ND	0.50	*	ppb (v/v)
Chloromethane	ND	0.50	1	ppb (v/v)	Toluena		ND	0.50	1	ppb (v/v)
1,2-Dichloro-1,1,2,2-Tetrafluoro ethane	ND	2.0	1	ppb (v/v)	Trichloroethene		ND	0.50	1	ppb (v/v)
Vinyl Chloride	ND	0.50	.1	ppb (v/v)	1,2-Dibromoetha	ne	ND	0.50	1	ppb (v/v)
Bromomethane	ND	0.50	1	ppb (v/v)	Tetrachloroethen	e	ND	0.50	1	ppb (v/v)
Chloroethane	ND	0.50	1	ppb (v/v)	Chlorobenzene		ND	0.50	1	ppb (v/v)
Trichlorofluoromethane	ND	0.50	1	ppb (v/v)	Ethylbenzene		ND	0,50	1	ppb (v/v)
1,1-Dichloroethene	ND	0.50	1	ppb (v/v)	p/m-Xylene		ND	1.0	1	ppb (v/v)
Methylene Chloride	ND	2.0	1	ppb (v/v)	Styrene		ND	1.0	1	ppb (v/v)
1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	1.0	1	ppb (v/v)	1,1,2,2-Tetrachlo	roethane	ND	0.50	1	ppb (v/v)
1,1-Dichloroethane	ND	0.50	1	ppb (v/v)	o-Xylene		ND	0.50	1	ppb (v/v)
c-1,2-Dichloroethene	ND	0.50	1	ppb (v/v)	1,3,5-Trimethylbi	enzene	ND	0.50	1	ppb (v/v)
Chloroform	ND	0.50	1	ppb (v/v)	1,2,4-Trimethylbi	enzene	ND	0.50	1	ppb (v/v
1,2-Dichloroethane	ND	0.50	1	ppb (v/v)	Benzyl Chloride		ND	0.50	1	ppb (v/v
1,1,1-Trichloroethane	ND	0.50	1	ppb (v/v)	1,3-Dichlorobenz	ene	ND	0.50	1	ppb (v/v
Benzene	ND	0.50	1	ppb (v/v)	1,4-Dichlorobenz	ene	ND	0.50	1	ppb (v/v
Carbon Tetrachloride	ND	0.50	1	ppb (v/v)	1,2-Dichlorobenz	ene	ND	0.50	1	ppb (v/v)
1,2-Dichloropropane	ND	0.50	1	ppb (v/v)	1,2,4-Trichlorobe	nzene	ND	0.50	1	ppb (v/v
c-1,3-Dichloropropene	ND	0.50	1	ppb (v/v)	Hexachloro-1,3-E	Butadlene	ND	0.50	1	ppb (v/v
t-1,3-Dichloropropene	ND	0.50	1	ppb (v/v)						A. 1.



Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation: Method:

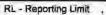
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N/A EPA TO-14A

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Client Sample Number				Sample umber	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Batch ID		
Method Blank			095-01-021-1,574		N/A	N/A /	Air	Air	NIA	01/25/0	. K	020125A
<u>Parameter</u>	Result	RL	DF	Qual Units	<u>Parameter</u>		Result	RL	DF	Qual Units		
Dichlorodifluoromethane	ND	0.50	4	ppb (v/v)	1,1,2-Trichloroeth	ane	ND	0.50	1	ppb (v/v		
Chloromethane	ND	0.50	1	ppb (v/v)	Toluene		ND	0.50	1	ppb (v/v		
1,2-Dichloro-1,1,2,2-Tetrafluoro ethane	ND	2.0	1	ppb (v/v)	Trichloroethene		ND	0.50	1	ppb (v/v		
Vinyl Chloride	ND	0.50	1	ppb (v/v)	1,2-Dibromoethar	1e	ND	0.50	1	ppb (v/v		
Bromomethane	ND	0.50	1	ppb (v/v)	Tetrachloroethene	e	ND	0.50	1	ppb (v/v		
Chloroethane	ND	0.50	1	ppb (v/v)	Chlorobenzene		ND	0.50	1	ppb (v/v		
Trichlorofiuoromethane	ND	0.50	1	ppb (v/v)	Ethylbenzene		ND	0.50	1	ppb (v/v		
1,1-Dichloroethene	ND	0.50	1	ppb (v/v)	p/m-Xylene		ND	1.0	1	ppb (v/v		
Methylene Chloride	ND	2.0	1	ppb (v/v)	Styrene		ND	1.0	1	ppb (v/v		
1,1,2-Trichloro-1,2,2-Trifiuoroeth ne	ND	1.0	1	ppb (v/v)	1,1,2,2-Tetrachlor	roethane	ND	0.50	1	ppb (v/v		
1,1-Dichloroethane	ND	0.50	1	ppb (v/v)	o-Xylene		ND	0.50	1	ppb (v/v		
c-1,2-Dichloroethene	ND	0.50	1	ppb (v/v)	1,3,5-Trimethylbe	nzene	ND	0.50	1	ppb (v/v		
Chloroform	ND	0.50	1	ppb (v/v)	1,2,4-Trimethylbe	nzene	ND	0.50	1	ppb (v/v		
1,2-Dichloroethane	ND	0.50	1	ppb (v/v)	Benzyl Chloride		ND	0.50	1	ppb (v/v		
1,1,1-Trichloroethane	ND	0.50	1	ppb (v/v)	1,3-Dichlorobenze	ene	ND	0.50	1	ppb (v/v		
Benzene	ND	0.50	1	ppb (v/v)	1,4-Dichlorobenze	ene	ND	0.50	1	ppb (v/v		
Carbon Tetrachloride	ND	0.50	1	ppb (v/v)	1,2-Dichlorobenza	ene	ND	0.50	1	ppb (v/v		
1,2-Dichloropropane	ND	0.50	1	ppb (v/v)	1,2,4-Trichlorober		ND	0.50	1	ppb (v/v		
c-1,3-Dichloroprapene t-1,3-Dichloropropene	ND ND	0.50	1	ppb (v/v) ppb (v/v)	Hexachloro-1,3-8	utadiene	ND	0.50	1	ppb (v/v		





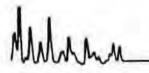
Earth Tech	Date Sampled:	01/23/02
100 West Broadway, Suite 240	Date Received:	01/23/02
Long Beach, CA 90802-4432	Date Analyzed:	01/23/02
	Work Order No.:	02-01-0947
Attn: Steve Williams	Method:	SCAQMD 25.1
RE: LAUSD-East Valley M.S. / 47127	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Methane Concentration	Reporting <u>Limit</u>
SG-10-20	ND	1
SG-10-10	1	1
SG-4-20	ND	1
SG-4-10	ND	1
Method Blank	ND	1

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.





Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/23/02

Work Order No:

02-01-0947

Preparation:

Total Digestion

Method:

EPA 6010B

Project: LAUSD-East Valley M.S. / 47127

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number	
SB-31-0.5	Solid	ICP 3300	01/23/02		01/24/02	012302ms9	
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers	
Antimony	59	53	50-115	11	0-20		
Arsenic	87	86	75-125	1	0-20		
Barlum	94	88	75-125	3	0-20		
Beryllium	89	87	75-125	2	0-20		
Cadmium	93	90	75-125	3	0-20		
Chromium (Total)	92	90	75-125	2	0-20		
Cobalt	95	92	75-125	3	0-20		
Copper	95	92	75-125	3	0-20		
Lead	90	87	75-125	3	0-20		
Molybdenum	90	87	75-125	3	0-20		
Nickel	93	91	75-125	2	0-20		
Selenium	89	85	75-125	5	0-20		
Silver	93	90	75-125	4	0-20		
Thallium	84	82	75-125	3	0-20		
Vanadium	91	90	75-125	1	0-20		
Zinc	89	86	75-125	2	0-20		



Quality Control - Laboratory Control Sample

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method:

01/23/02 02-01-0947 Total Digestion EPA 6010B

Project:

LAUSD-East Valley M.S. / 47127

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-3,068	Solid	ICP 3300	01/24/02	020123-1	520123lcs9
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL Qualifiers
Antimony		50.0	47.8	96	80-120
Arsenic		50.0	44.6	89	80-120
Barium		50.0	49.7	99	80-120
Beryllium		50.0	48.5	97	80-120
Cadmium		50.0	51.4	103	80-120
Chromium (Total)		50.0	50.4	101	80-120
Cobalt		50.0	53.9	108	80-120
Copper		50.0	49.4	99	80-120
Lead		50.0	49.8	100	80-120
Molybdenum		50.0	50.2	100	80-120
Nickel		50.0	52.1	104	80-120
Selenium		50.0	47.5	95	80-120
Silver		25.0	24.0	96	80-120
Thallium		50.0	50.6	101	80-120
Vanadium		50.0	49.5	99	80-120
Zinc		50.0	51.7	103	80-120



Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/23/02

Work Order No:

02-01-0947

Preparation:

Total Digestion

Method:

EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
SB-31-0.5	Solid	Mercusy	81/23/02		01/24/02	012302ms5
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	123	122	76-136	0	0-16	

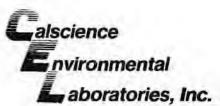
Quality Control - Laboratory Control Sample

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/23/02 02-01-0947 Total Digestion EPA 7471A

Project:

LAUSD-East Valley M.S. / 47127

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Betch Numb	ber	
099-04-007-1,289 Solid		Mercury	01/24/02	020123 [020123los5	020123los5	
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL Qua	alifiers	
Mercury		0.835	0.906	109	82-124		



QUALITY ASSURANCE SUMMARY Method EPA 8270C (Solids)

Earth Tech Page 1 of 1				Order No.: Analyzed:		-01-0947 01/24/02
Surrogate Recoveries	(in %)					
Sample Number	<u>S1</u>	<u>S2</u>	<u>\$3</u>	<u>\$4</u>	<u>S5</u>	<u>S6</u>
MS SB-13-7 MSD SB-13-7 LCS 0201236	81 76 104	84 78 108	81 75 104	80 73 101	75 67 105	77 71 103

Surrogate Compound	Solid %REC Acceptable Limits
S1 > 2-Fluorophenol	31 - 142
S2 > Phenol-d ₆	30 - 136
S3 > Nitrobenzene-d ₅	28 - 139
S4 > 2-Fluorobiphenyl	33 - 144
S5 > 2,4,6-Tribromophenol	24 - 152
S6 > p-Terphenyl-d14	23 - 160



Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/23/02

Work Order No:

02-01-0947

Preparation:

EPA 3545

Method:

EPA 8270C

Project:

LAUSD-East Valley M.S. / 47127

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
SB-13-7	Solid	GC/MS P	01/23/02		01/24/02	0201094710
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	86	79	53-118	8	0-19	
2-Chlorophenol	85	78	60-119	8	0-18	
1,4-Dichlorobenzene	81	75	56-131	8	0-18	
N-Nitroso-di-n-propylamine	89	82	64-123	7	0-18	
1,2,4-Trichlorobenzene	75	69	52-144	8	0-17	
4-Chloro-3-Methylphenol	86	80	45-135	7	0-20	
Acenaphthene	89	81	45-152	9	0-18	
4-Nitrophenol	96	86	45-135	11	0-20	
2,4-Dinitrotoluene	98	90	42-128	9	0-23	
Pentachlorophenol	91	82	45-135	11	0-20	
Pyrene	78	73	45-135	7	0-20	



Quality Control - Laboratory Control Sample

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/23/02 02-01-0947 EPA 3545 EPA 8270C

Project:

LAUSD-East Valley M.S. / 47127

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-04-010-1,175	Solid	GC/MS P	01/24/02	24JAN005	0201236
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL Qualifiers
Phenol		10	11	107	67-118
2-Chlorophenol		10	11	106	72-119
1,4-Dichlorobenzene		10	10	101	69-118
N-Nitroso-di-n-propylamine		10	11	111	70-112
1,2,4-Trichlorobenzene		10	9.4	94	65-135
4-Chloro-3-Methylphenol		10	11	111	45-135
Acenaphthene		10	11	109	61-142
4-Nitrophenol		10	12	123	45-135
2,4-Dinitrotoluene		10	12	124	47-137
Pentachlorophenol		10	12	120	45-135
Pyrene		10	9.9	99	45-135



QUALITY ASSURANCE SUMMARY Method EPA TO-14A

 Earth Tech
 Work Order No.:
 02-01-0947

 Page 1 of 1
 Date Analyzed:
 1/23/02

Surrogate Recoveries (in %)

Sample Number	<u>S1</u>
SG-10-20	109
SG-10-10	107
SC-4-20	112
SG-4-10	113
SG-11-9D	117
SG-10D	115
SG-14-20D	113
Method Blank 095-01-021-1573	69
LCS K020123A	106
LCSD K020123A	105
SG-15-20D	111
Method Blank 095-01-021-1574	78
LCS K020125A	108
LCSD K020125A	108

Surrogate Compound Acceptable Limits

S1 > 1,4-Bromofluorobenzene 75 - 125

^{*} Surrogate outside acceptable limits.



Quality Control - LCS/LCS Duplicate

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/23/02 02-01-0947 N/A EPA TO-14A

Project: LAUSD-East Valley M.S. / 47127

Quality Control Sample ID	Matrix	Instrument	Date Prepared		ite yzed	LCS/LCSD Bat Number	ch
095-01-021-1,573	Air	GCAMS K	N/A	01/2	3/02	K020123A	
Parameter	LCS %RE	C LCSD %R	EC 9	REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	106	108		60-140	3	0-30	
1,2-Dichloroethane	106	106		60-140	0	0-30	
Benzene	103	105		60-140	2	0-30	
Carbon Tetrachloride	104	103		60-140	1	0-30	
1,2-Dichloropropane	102	104		60-140	1	0-30	
c-1,3-Dichloropropene	110	110		60-140	0	0-30	
1,1,2-Trichloroethane	109	108		60-140	1	0-30	
Toluene	106	107		60-140	2	0-30	
Trichlorgethene	102	103		60-140	1	0-30	
1,2-Dibromoethane	111	112		60-140	1	0-30	
Tetrachloroethene	104	105		60-140	1	0-30	
Ethylbenzene	112	114		60-140	2	0-30	
p/m-Xylene	111	112		60-140	1	0-30	
Bromoform	112	112		60-140	1	0-30	
o-Xylene	111	112		60-140	1	0-30	
1,4-Dichlorobenzene	96	98		60-140	2	0-30	
1,2-Dichlorobenzene	113	116		60-140	2	0-30	



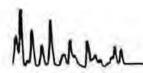
Quality Control - LCS/LCS Duplicate

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/23/02 02-01-0947 N/A

EPA TO-14A

Project: LAUSD-East Valley M.S. / 47127

Quality Control Sample ID	Matrix	Instrument	Date Prepared		ite yzed	LCS/LCSD Bate Number	ch
095-01-021-1,574	Air	GC/MS K	N/A	01/2	5/02	K020125A	
Parameter	LCS %RE	C LCSD 9	&REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	112	115		60-140	3	0-30	
1,2-Dichloroethane	104	107		60-140	3	0-30	
Benzene	102	108		60-140	5	0-30	
Carbon Tetrachloride	101	105		60-140	4	0-30	
1,2-Dichloropropane	101	106		60-140	4	0-30	
c-1,3-Dichloropropene	107	112		60-140	5	0-30	
1,1,2-Trichloroethane	105	110		60-140	4	0-30	
Toluene	102	105		60-140	2	0-30	
Trichloroethene	100	106		60-140	5	0-30	
1,2-Dibromoethane	107	109		60-140	2	0-30	
Tetrachloroethene	101	103		60-140	3	0-30	
Ethylbenzene	110	112		60-140	2	0-30	
p/m-Xylene	109	110		60-140	1	0-30	
Bromoform	105	109		60-140	3	0-30	
o-Xylene	108	110		60-140	2	0-30	
1,4-Dichlorobenzene	90	95		60-140	6	0-30	
1,2-Dichlorobenzene	100	109		60-140	9	0-30	





QUALITY ASSURANCE SUMMARY

Method SCAQMD 25.1M

Earth Tech Page 1 of 1			Order No.: nalyzed:		01-0947 01/23/02
LCS/LCS Duplicate Analyte	LCS%REC	LCSD%REC	Control <u>Limits</u>	%RPD	Control Limits
Methane	106	106	80 - 120	0	0 - 20

Calscience GLOSSARY OF TERMS AND QUALIFIERS

nvironmental aboratories, Inc.

Work Order Number: 02-01-0947

Qualifier	<u>Definition</u>	
D	The sample data was reported from a diluted analysis.	
J	Analyte was detected at a concentration below the reporting limit. Reported value is estimated.	
ND	Not detected at indicated reporting limit.	
X	% Recovery and/or RPD out-of-range.	



February 14, 2002 PM07802

Steve Williams
Earth Tech
100 West Broadway, Suite 240
Long Beach, CA 90802-4432

Subject:

Calscience Work Order No.:

Client Reference:

02-01-1011

LAUSD-East Valley M.S. /47127

Dear Mr. Williams:

Calscience Environmental Laboratories, Inc. (Calscience) is pleased to submit herewith the subject analytical report. The narrative presented below summarizes our analytical effort and clarifies any quality control anomalies which appear in the report.

Sample Condition on Receipt

Forty-four soil samples and one water samples were received as part of this Work Order on January 24, 2002. All samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature of the ice-chest was measured upon arrival in the laboratory and was within acceptable limit (4°C). The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

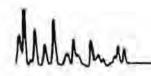
Data Summary

Data is presented on a wet weight basis.

Included in this report is the physical testing report that was performed by PTS laboratories.

Holding Times

All holding time requirements were met.



Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks

The method blank data showed non-detectable levels for all constituents, with the exception of trace levels of copper for batch 020124lcs10.

Matrix Spikes

Matrix spikes (MS) and matrix spike duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits, with the exception of silver for batch 012402ms9. The recoveries were outside the QC limits for the MS and MSD. However, the corresponding Laboratory Control Sample (LCS) recovery was within control limits, indicating a matrix interference effect. Therefore, the data is released without further action or qualification.

Laboratory Control Samples

The Laboratory Control Sample (LCS) analysis was performed at the required frequency. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for all samples were within acceptable control limits.

If there are any questions regarding this report, please contact the undersigned at (714) 895-5494.

Sincerely,

Calscience Environmental

Laboratories, Inc.

Marycarol Valenzuela

Project Manager

Michael J. Crisostomo

Quality Assurance Manager



EARTH

A TUCO INTERNATIONAL LTD. COMPANY

														C	ustody :	Seal #			Earth Tech	Cooler	#	
	ct Number	Project Name/Clien									y Ar	alysis	Requ	red					M	atrix		
4	7127	gnature) Laure	24	in e	5.						3.							San	ple Type	S	ample (Containe
Samp	le Custodian: (Sig	gnature) Launes	nce	Br	iai	صه			10	0	A.Page					1	П			3	4	
tem No.	Sample D (Field ID		Date	Time	Grab	Сошр.	PID Reading (ppm)	Label Number	8270	601	Physical Pra							7105		5.5 5.6		
1	58-12-0.5	14	24/02	6650	×		0	TO EL	X	×				97				X		义		
2	58 -12-7		L	0654			1		X	X				71						1		
3	58 - 12-10			0659			1	100	Ho	40												
4	58-12-12-			0704					Ha	40												
5	58-12- PHYSI	CAL		1650							X											
6	58-18-05			6717			EVID		×	×												
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15	5B-16-7			240					X	X									EEE			
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17	58-16-12			0856					Ho	10										1		
18	59-16- PHYS	CAL	1	02%	X		0		2		X			1				X		X		
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100	w. BROADWAL	1 576 240				14	-TA: -	A p. 1)	.)			0	Samp	es delive	ered in pe	rson	Cus	tody Seal In	tact?			
امم	in Broadway Beach cd (564) 951-2	90001		Fe	deral :	Expres	ess Airbill No.:							on carri		7.74	Temp. of Shipping Container:					
6	(562) 951-2	084		La	U:										Sample Condition:							



A TUCO INTERNATIONAL LTD. COMPANY



Chain o tody Record

											_					stody Seal #	-		Earth Tech	Cooler #	#	
	ct Number	Project Name						7		_		Anal	ysis R	equir	ed				M	Matrix		
4	7127	GASTVAL	ctery m	-5,									8	1				Sam	ple Type	Sa	mple Co	ntain
amp	le Custodian: (Si	gnature) Lau	nehoce	Bn	aun	15			٥	٥	2	_	Typere	1						2763		
em Vo.		Description Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	827	3	300	808	PHYS KAN					2011		75		
*	58-15-0.5		1/20/02	01/2	×		0		X	X							7	X		X		
2	58-15-7			0414	1		1		X	X	9											
3	5B-15-10			0918					H	20	6							(1)		Π		
1	58 -15-12			0925					H	20												5.0
8	58-2-2			1042			59 100	155	X	X	X									Π		Edi
6	58-2-3			1092					x	X	X										IV.	
2	58-2-5			1044					x	X	X											
8	SB-3-2			1052					X	X		×										
9	58-3-5			1056					X	X		X									2015	
0	58-9-0.5			1124					X	×		Tag										
r	58-9-7			1/27			EVII.		x	x	1											E
12	58-9-10			033					Ho	LD										Ш		
3	58-9-12			1139					110	20			地							Ш		
W	58-9-PH	SICAL		1124				-					X									
1000	58-26-0.5			1205					上	×												
16	58 - 26 - 7			1209					X	X												
M	58-26-10		7 74	144					140	0	7									1		
18	512 - 26 - 12		1	1221	J		6		140	20								X		X	T, E	
ling	uished by: (Signature)	an Pa		Da	te / Ti	me	Received	by: (Signa	ature)					D	isposed	of by: (Signature)		Items:			Date / Ti	ine
ling	uished by: (Signature)			VLH!	te/Ti	me 61 D	THE WORLD	by: KSigna	uture)					D	isposed	of by: (Signature)		Items:			Date / Ti	me
	ab Results To: STE			Rema	ırks:	24	HUL TA	HC V	O						ry Metl			boratory Rece				
or	W. BROADU	ch 90000				Expre	ss Airbill N	0.:	,				☐ Samples delivered in person☐ Common carrier			Custody Seal Intact? Temp. of Shipping Container:						
	× (562) 95			1 4	ab:								Sample Condition:					44 m	-			



A THEO INTERNATIONAL LTD. COMPANY



Chain o stody Record

3 0+ 4

														C	ustody Seal #			Earth T	ech C	ooler	‡	
Project Number	Project Name	Client L	USD			0.7	1 1		_		Anal	ysis R	equi	ed					Ma	trix		
47127	EAST VAL						1	20,0	7	(3)	7						Sa	mple Typ	ре	Sa	mple C	Container
Sample Custodia	n: (Signature) Lau	reduce	1210	unt	8			ons) c	O (mer)	- (P.C.	CRES		1		111					0		
	mple Description field fD Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	8270	109	8-83	188						108			5.5		
1 58-15-	0.5	1/24/07	1240	X		D		×	x	X							×			X		
N 58-25.	7		134	1		1		X	×	×								15				
\$ 58-25.			1306					40	w													
4 5g-25.	12		1309					40	20							Į.						
\$ 58.24-	314		1330					X														
6 SB . 24 -	7		1335					X	X													
X 5B-24-	10		1340					Ha														
8 58-24	-12	1	13+2	1		6		H	ND	(50					NOTES BE	L	×			×		
9							3									L						
10									1													
11																L						
12																						
13																						
14				-																		
15	1		2.00									15	1			1						1
16													-			-						-
17		1										-	-	-	++-	-		-	1	\vdash		++
18	1	1											1			L						
Relinquished by: (Sig	nature /	1	Da	te / Ti	me	Received	by: (Signa	ture)					L	Ispose	d of by: (Signature)		Items:				Date / 1	Time
Relinquished by: (Sig	nature)		Da	te / Ti	me 61a	Received	by: (Signa	ture)	Ī				D	ispose	d of by: (Signature)		Items:				Date / 7	Гime
Send Lab Results To:	STEVE WILL	Ans	Rema	rks:	-	a 1ha	-	0				Check	Deliv	ery Me	thod:	La	boratory Re	ceiving Not	tes:			
100 W. BR.	ABWAY STE 2	40			1	4 MR	121					0 5	lample	s deliv	ered in person	C	stody Seal	Intact?				
LONE BON	H CA 9000 H 951-2006	1_	Fe	ederal	Expre	4 HR	o.:	25)					on carri		1	mp. of Ship		iner:			
C Co	1000		"	ab:												Sa	mple Condi	tion:				
tay (56	1951-1086		W	hita (onv -	Lab	_	Yello	···· C		Eile		_	Din	k Copy - Client		F			_		



A THEO INTERNATIONAL LTD. COMPANY



Chain o stody Record

														Cus	tody S	ieal#			E	arth Tec	h Cool	er#		
Proje	ct Number	Project Name/	Client								Ana	ysis R	equire	d							Matri	(
4	7127	LAUSD	= Vm5																Samp	е Туре		Sam	ple C	ontainer
Samp	ole Custodian: (Signature)	- A Mau	NE					٥									1		11		1		
Item No.		e Description ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	627									wason				10		
1	EQUIP BL		1-24-01						×		-1	-			241			×			3	1		
2																								
3	2									500														
4																	L							
5	1										-		-	\Box	_	-	\vdash			1	-		-	
6	1								-	-	-		+	\vdash	-	_	\vdash		_	+	-	+	+	
7		1							-		+	\vdash	+	-	-	-	\vdash		-		-	-	+	-
9		1	-						-	+	+	\vdash	+	\vdash	-	+	+		+	++	-	+	+	+
10		_								-	+		+	+	+	-			-	++		+	+	++
11		1									+		-							++	\dashv	+	+	\vdash
12		1														1			_				1	
13		1																						
14		1																						
15			V				8														- 1			
16																								
17			1										Vi-											
18		1 1	A												-				_					
Reling	uished by: (Signatu	In /2	~	1/21	IE TI	1/2		by: (Signa					Dis	sposed o	of by: (S	Signature)		Items				D	Dare / T	ime
Reling	uished by: (Signatu	ге)		1/2	te/Ti	me 1620	Receiv	by (Signa	ture)				Dis	posed o	of by: (S	Signature)		Items				D	ate / T	ime
Send I	ab Results To: 5	WILLIAMS BLAY STE 24 2802 1951-2086	· o	Rema	rks:	5	Acceive day	TAT		D		1	Deliver					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		ing Notes:				
2.	B. CA 90	2030		F	ederal	Expre	ss Airbill N	0.:				1 2	amples Common	carrier	o in per	201	-	stody Se mp. of S		Container	4.		-	
1	1/5/2	951-2086		L	ab:							17.7					-	mple Co						1000
	2664	/ 4			hite (. 107			** 12	~	v File				-	Client						_	_	

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC. Sample Summary Report

WORK ORDER #:

02-01-1011

QAPP:

0117

#	Client Sample ID	Matrix	Date Collected	NoC	Comment
1	SB-12-0.5	S	01/24/2002	1	
2	SB-12-7	S	01/24/2002	1	
3	SB-12-10	S	01/24/2002	1	
4	SB-12-12	S	01/24/2002	1	
5	SB-12-PHYSICAL	S	01/24/2002	1	
6	SB-18-0.5	S	01/24/2002	1	
7	SB-18-7	S	01/24/2002	1	
8	SB-18-10	S	01/24/2002	1	
9	SB-18-12	S	01/24/2002	1	
10	SB-17-0.5	S	01/24/2002	1	
11	SB-17-7	S	01/24/2002	1	
12	SB-17-10	S	01/24/2002	1	
13	SB-17-12	S	01/24/2002	1	
14	SB-16-0.5	S	01/24/2002	1	
15	SB-16-7	S	01/24/2002	1	
16	SB-16-10	S	01/24/2002	1	
17	SB-16-12	s	01/24/2002	1	
18	SB-16-PHYSICAL	S	01/24/2002	1	
19	SB-15-0.5	S	01/24/2002	1	
20	SB-15-7	S	01/24/2002	1	
21	SB-15-10	S	01/24/2002	1	
22	SB-15-12	S	01/24/2002	1	
23	SB-2-2	S	01/24/2002	1	
24	SB-2-3	S	01/24/2002	1	
25	SB-2-5	S	01/24/2002	1	
26	SB-3-2	S	01/24/2002	1	
27	SB-3-5	S	01/24/2002	1	
28	SB-9-0.5	S	01/24/2002	1	
29	SB-9-7	S	01/24/2002	1	
30	SB-9-10	S	01/24/2002	1	
31	SB-9-12	s	01/24/2002	1	
32	SB-9-PHYSICAL	S	01/24/2002	1	

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC. Sample Summary Report

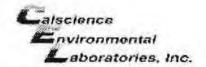
WORK ORDER #:

02-01-1011

QAPP:

0117

# 33 S	Client Sample ID B-26-0.5	Matrix S	Date Collected 01/24/2002	NoC 1	Comment
34 S	B-26-7	S	01/24/2002	1	
5 S	B-26-10	S	01/24/2002	1	
6 S	B-26-12	S	01/24/2002	1	
37 S	B-25-0.5	S	01/24/2002	1	
38 S	B-25-7	S	01/24/2002	1	
39 S	B-25-10	S	01/24/2002	1	
10 S	B-25-12	S	01/24/2002	1	
11 S	B-24-0.5	S	01/24/2002	1	
12 S	B-24-7	S	01/24/2002	1	
13 S	B-24-10	S	01/24/2002	1	
14 S	B-24-12	S	01/24/2002	1	
45 E	QUIP BLANK 1-24	2W	01/24/2002	1	
			V.		
			U		
			1		
				1	



WORK ORDER #:	02-0		0	
		1		1

Cooler of of

SAMPLE RECEIPT FORM

TEMPERATURE - SAMPLES RECEIVED BY:	
CALSCIENCE COURIER: Chilled, cooler with temperature blank provided. Chilled, cooler without temperature blank. Chilled and placed in cooler with wet ice. Ambient and placed in cooler with wet ice. Ambient temperature. C Temperature blank.	LABORATORY (Other than Calscience Courier): ° C Temperature blank, ° C IR thermometer Ambient temperature.
CUSTODY SEAL INTACT:	
Sample(s): No (Not Inta	Not Applicable (N/A): Initial:
SAMPLE CONDITION: Chain-Of-Custody document(s) received with samples Sample container label(s) consistent with custody papers, Sample container(s) intact and good condition Correct containers for analyses requested Proper preservation noted on sample label(s) VOA vial(s) free of headspace Tediar bag(s) free of condensation	
SB-9-PHYSICAL Not received SB-16-PHYSICAL received 2 9	leeves

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240

Long Beach, CA 90802-4432

Date Received:

01/24/02

Work Order No:

02-01-1011

Preparation:

Total Digestion

Method:

EPA 6010B / EPA 7471A

Project: 47127/LAUSD EAST VALLEY M.S.

Page 1 of 9

Client Sample Nu	mber			b Sar Numb		9	Date Collected	Matrix	Date Prepared	Date Analyzed	q	C Bato	th ID
S8-12-0,5	1		Q	2-01-	101	1-1	01/24/02	Solid	01/24/02	01/25/02	C	20124	lc10
Comment(s):	Mercury was analy	zed on 1/25/2	002 10	:30:3	7 A	W with ba	atch 020124lcs6						***************
Parameter	Res	ult RL	D	E Q	ial	Units	Parameter		Result	RL	DF	Qual	<u>Units</u>
Antimony	ND	0.75	0	1		mg/kg	Mercury		0.0244	0.0835	1	J	mg/kg
Arsenic	ND	0.75	0	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium	54.0	0.5		1		mg/kg	Nickel		3.68	0.25	1		mg/kg
Beryllium	0.1	24 0.25	0	1 J		mg/kg	Selenium		0.436	0.750	1	J	mg/kg
Cadmium	0.0	249 0.50	0	1 1		mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	4,5	5 0.25	9	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	4.2	2 0.25		1		mg/kg	Vanadium		13.0	0.2	1		mg/kg
Copper	5.2			1		mg/kg	Zinc		22.0	1.0	1		mg/kg
Lead	1.7			1		mg/kg							resample.
SB-12-7			0	2-01-	101	1-2	01/24/02	Solid	01/24/02	01/25/02	(20124	lc10
Comment(s):	Mercury was analy		002 10	1:33:3	6 A	M with b	atch 020124lcs6						-
Parameter	Res	ult RL	D	<u>Q</u>	ual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.75	0	1		mg/kg	Mercury		0.0219	0.0835	1	J	mg/kg
Arsenic	0.1	76 0.75	0	1 1		mg/kg	Molybdenum		0.0648	0.250	1	J	mg/kg
Barium	65.5	0.5		1		mg/kg	Nickel		4.09	0.25	1		mg/kg
Beryllium	0.1	46 0.25	50	1 1		mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.0	314 0.50	00	1 J		mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	5.2	3 0.2	5	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	4.6	2 0.2	5	1		mg/kg	Vanadium		14.9	0.2	1		mg/kg
Copper	8.8			1		mg/kg	Zinc		26,1	1.0	1		mg/kg
Lead	1.3)	1		mg/kg							
SB-18-0.5				2-01-	101	1-6	01/24/02	Solid	01/24/02	01/25/02	4	20124	Hc10
Comment(s):	Mercury was analy	zed on 1/25/2					atch 020124lcs6						
Parameter	Res	ult RL	Q	EQ	ual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.7	50	1		mg/kg	Mercury		0.0464	0.0835	1	J	mg/kg
Arsenic	0.3	91 0.7	50	1 1		mg/kg	Molybdenum		0.0522	0.250	1	J	mg/kg
Barium	92.3	0.5		1		mg/kg	Nickel		7.69	0.25	1		mg/kg
Beryllium	0.2	241 0.2	50	1 1		mg/kg	Selenium		0.548	0.750	1	J	mg/kg
Cadmium	0.4	29 0.5	00	1 1		mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	9.9	0,2	5	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	7.5			1		mg/kg	Vanadium		24.7	0.2	1		mg/kg
Copper	11.8			1		mg/kg	Zinc		42.0	1.0	1		mg/kg
Lead	5.4			1		mg/kg							

RL - Reporting Limit ,

DF - Dilution Factor

Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/24/02

Work Order No:

02-01-1011

Preparation:

Total Digestion

Method:

EPA 6010B / EPA 7471A

Project: 47127/LAUSD EAST VALLEY M.S.

Page 2 of 9

Client Sample Nu	mber				Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	C	C Bato	th ID
SB-18-7		0.00		62-	01-101	1-7	01/24/02	Solid	01/24/02	01/25/02	(20124	Ic10
Comment(s):	Mercury was	analyzed on	1/25/2003	2 10:3	9:38 A	M with b	atch 020124lcs6					************	
Parameter	Water Co.	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	<u>Units</u>
Antimony		ND	0.750	1		mg/kg	Mercury		0.0580	0.0835	1	J	mg/kg
Arsenic		ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium		90.0	0.5	1		mg/kg	Nickel		5.81	0.25	1		mg/kg
Beryllium		0.183	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium		0.0815	0.500	1		mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)		7.55	0.25	1	170	mg/kg	Thallium		NO	0.750	1		mg/kg
Cobalt		5.72	0.25	1		mg/kg	Vanadium		21.2	0.2	1		mg/kg
Copper		8.19	0.50	1		mg/kg	Zinc		32.8	1.0	1		mg/kg
Lead		1.71	0.50	1		mg/kg			(2000)	112			
SB-17-0.5				02-	01-101	1-10	01/24/02	Solid	01/24/02	01/25/02		020124	icio
Comment(s):	Mercury was	analyzed on	1/25/200	2 10:4	2:39 A	M with b	atch 020124lcs6						
Parameter		Result	RL	DE	Qual	<u>Units</u>	Parameter		Result	RL	DE	Qual	<u>Units</u>
Antimony		ND	0.750	1		mg/kg	Mercury		0.0154	0.0835	1	J	mg/kg
Arsenic		ND	0.750	1		mg/kg	Molybdenum		NO	0.250	1		mg/kg
Barium		83.2	0.5	1		mg/kg	Nickel		6.62	0.25	1		mg/kg
Beryllium		0.223	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium		0.111	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)		8.38	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt		6.80	0.25	1		mg/kg	Vanadium		20.8	0.2	1		mg/kg
Copper		9.31	0.50	1		mg/kg	Zinc		36.4	1.0	1		mg/kg
Lead		4.73	0.50	1		mg/kg				197			********
58-17-7				02-	01-101	11-11	01/24/02	Solid	01/24/02	01/25/02		020124	Uc10
Comment(s):	Mercury was	s analyzed or	1/25/200				atch 020124lcs6						***********
Parameter Parame		Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
Antimony		ND	0.750	1		mg/kg	Mercury		ND	0.0835	1		mg/kg
Arsenic		ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barlum		122	0.500	1		mg/kg	Nickel		7.73	0.25	1		mg/kg
Beryllium		0.228	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium		0.108	0.500	1	J	mg/kg	Silver		ND	0.250	1	171	mg/kg
Chromium (Total)		10.3	0.2	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt		8.78	0.25	1		mg/kg	Vanadium		28.9	0.2	1		mg/kg
Copper		10.6	0.5	1		mg/kg	Zinc		41.7	1,0	1		mg/kg

RL - Reporting Limit ,

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

01/24/02

Work Order No:

02-01-1011

Preparation:

Total Digestion

Method:

EPA 6010B / EPA 7471A

Project: 47127/LAUSD EAST VALLEY M.S.

Page 3 of 9

Client Sample Nu	mber				Sampl umber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	C	C Bate	ch ID
SB-16-0.5		-		02-	01-101	1-14	01/24/02	Solid	01/24/02	01/25/02		020124	ic10
Comment(s):	Mercury wa	s analyzed on	1/25/200	2 10:4	8:44 A	M with b	atch 020124lcs6			***************************************	Highs		***************************************
Parameter	-	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DE	Qual	Units
Antimony		ND	0.750	1		mg/kg	Mercury		0.0211	0.0835	1	J	mg/kg
Arsenic		ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium		91.5	0.5	1		mg/kg	Nickel		7.07	0.25	1		mg/kg
Beryllium		0.210	0.250	1	1	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium		0.0948	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	0.	9.28	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt		7.62	0.25	1		mg/kg	Vanadium		23.6	0.2	1		mg/kg
Copper		9.56	0.50	1		mg/kg	Zinc		39.2	1.0	1		mg/kg
ead		2.41	0.50	1		mg/kg			70000				
SB-16-7				02-	01-101	1-15	01/24/02	Solid	01/24/02	01/25/02		020124	ic10
Comment(s):	Mercury wa	s analyzed on	1/25/200	2 10:5	1:47 A	M with b	atch 020124lcs6						
Parameter		Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DE	Qual	<u>Units</u>
Antimony		ND	0.750	1		mg/kg	Mercury		0.0427	0.0835	1	J	mg/kg
Arsenic		0.194	0.750	1	J	mg/kg	Molybdenum		0.0587	0.250	1	J	mg/kg
3arium		94.3	0.5	1		mg/kg	Nickel		7.01	0.25	1		mg/kg
Beryllium		0.228	0.250	1	J	mg/kg	Selenium		0.295	0.750	1	J	mg/kg
Cadmium		0.0827	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	0	8.93	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt		6.93	0.25	1		mg/kg	Vanadium		22.0	0.2	1		mg/kg
Copper		9.58	0.50	1		mg/kg	Zinc		37.4	1.0	1		mg/kg
Lead		2.95	0.50	1		mg/kg	-40-		77.11				,
SB-15-0.5				02-	01-101	1-19	01/24/02	Solid	01/24/02	01/25/02		020124	ic10
Comment(s):	Mercury wa	is analyzed or					atch 020124lcs6			***************************************	*****		
Parameter		Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony		ND	0.750	1		mg/kg	Mercury		0.0424	0.0835	1	J	mg/kg
Arsenic		ND	0.750	1		mg/kg	Molybdenum		0.0347	0.250	1	J	mg/kg
Barium		84.9	0.5	1		mg/kg	Nickel		7.72	0.25	1		mg/kg
Beryllium		0.243	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium		0.112	0.500	1	7	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	1	10.1	0.2	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt		7.44	0.25	1		mg/kg	Vanadium		24.4	0.2	1		mg/kg
Copper		10.8	0.5	1		mg/kg	Zinc		38.7	1.0	- 1		mg/kg
Lead		3.03	0.50	1		mg/kg	86-07-02-0		10.40	1.0			100

RL - Reporting Limit ,

DF - Dilution Factor ,

Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 . TEL: (714) 895-5494 . FAX: (714) 894-7501

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/24/02

Work Order No:

02-01-1011

Preparation:

Total Digestion

Method:

EPA 6010B / EPA 7471A

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Nu	mber				Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bate	:h ID
SB-15-7				02-	01-101	1-20	01/24/02	Solid	01/24/02	01/25/02	τ	20124	lc10
Comment(s):	Mercury wa	s analyzed on	1/25/200	2 10:5	7:53 A	M with b	atch 020124lcs6						
Parameter		Result	RL	DF	Qual	Units	Parameter		Result	RL	DE	Qual	Units
Antimony		ND	0,750	1		mg/kg	Mercury		0.0179	0.0835	1	J	mg/kg
Arsenic		ND	0.750	1		mg/kg	Molybdenum		0.0638	0.250	1	J	mg/kg
Barium		63.5	0.5	1		mg/kg	Nickel		4.87	0.25	1		mg/kg
Beryllium		0.161	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium		0.0662	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)		6.50	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt		4.80	0.25	1		mg/kg	Vanadium		14.8	0.2	1		mg/kg
Copper		9.25	0.50	1		mg/kg	Zinc		26.3	1.0	1		mg/kg
Lead		2.14	0.50	1		mg/kg							
SB-2-2				02-	01-101	1-23	01/24/02	Solid	01/24/02	01/25/02	(20124	lc10
Comment(s):	Mercury wa	s analyzed on	1/25/200	2 11:0	7:05 A	M with b	atch 020124lcs6						
<u>Parameter</u>		Result	RL	DE	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony		ND	0.750	1		mg/kg	Mercury		0.0235	0.0835	1	J	mg/kg
Arsenic		ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium		123	0.500	1		mg/kg	Nickel		7.39	0.25	1		mg/kg
Beryllium		0.212	0.250	1	J	mg/kg	Selenium		0.305	0.750	1	J	mg/kg
Cadmium		0.175	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)		9,67	0,25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt		8.16	0.25	1		mg/kg	Vanadium		28.3	0.2	1		mg/kg
Copper		12.4	0.5	1		mg/kg	Zinc		47.0	1.0	1		mg/kg
Lead		5.98	0.50	1		mg/kg							
SB-2-3				02-	01-101	1-24	01/24/02	Solid	01/2/02	04/25/02	1	020124	ic10
Comment(s):	Mercury wa	Andrew Prince of Publication and					atch 020124lcs6		A		7		
Parameter		Result	RL	DF	Qual	Units	Parameter		Result	RL	OF	Qual	<u>Units</u>
Antimony		ND	0.750	1		mg/kg	Mercury		0.0193	0.0835	1	J	mg/kg
Arsenic		ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium		79.4	0.5	1		mg/kg	Nickel		5.88	0.25	1	1.1	mg/kg
Beryllium		0.205	0.250	1	J	mg/kg	Selenium		0.275	0.750	1	J	mg/kg
Cadmium		0.0817	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)		B.07	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt		6.27	0.25	1		mg/kg	Vanadium		21.8	0.2	1		mg/kg
Copper		B.49	0.50	1		mg/kg	Zinc		30.3	1.0	1		mg/kg
Lead		1.99	0.50	1		mg/kg	- 10 10		6.7.2	1000			

RL - Reporting Limit

DF - Dilution Factor

Qual - Qualifiers

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ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/24/02

Work Order No:

02-01-1011

Preparation:

Total Digestion

Method:

EPA 6010B / EPA 7471A

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Nu	mber		200	Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	c	C Bate	th ID
58-2-5		San Aces	02-	01-101	1-25	01/24/02	Solid	01/24/02	01/28/02	(20124	lc10
Comment(s):	Mercury was analyzed	on 1/25/200	2 11:1	3:15 A	M with b	atch 020124lcs6		111111111111111111111111111111111111111				
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	<u>Units</u>
Antimony	ND	0.750	1		mg/kg	Mercury		0.0287	0.0835	1	J	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium	39.7	0.5	1		mg/kg	Nickel		2.07	0.25	1		mg/kg
Beryllium	0.079	3 0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	2.62	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	2.38	0.25	1		mg/kg	Vanadium		7.84	0.25	1		mg/kg
Copper	3.55	0.50	1		mg/kg	Zinc		15.2	1.0	1		mg/kg
Lead	0.828		1		mg/kg				7.			
SB-3-2			02-	01-101	1-26	01/24/02	Solid	01/24/02	01/25/02		120124	lc10
Comment(s):	Mercury was analyzed	on 1/25/200	2 11:1	6:21 A	M with b	atch 020124lcs6						
Parameter	Result	RL	DF	Qual	<u>Units</u>	<u>Parameter</u>		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0190	0.0835	1	J	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium	101	0.500	1		mg/kg	Nickel		7.35	0.25	1		mg/kg
Beryllium	0.21	6 0.250	1	1	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.11	3 0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	9.62	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	7.81		1		mg/kg	Vanadium		24.6	0.2	1		mg/kg
Copper	10.3	0.5	1		mg/kg	Zinc		41.7	1.0	1		mg/kg
Lead	2.36		1		mg/kg			1577		-		
SB-3-5			02-	01-101	11-27	01/24/02	Solid	01/24/02	01/25/02		20124	Nc10
Comment(s):	Mercury was analyze	on 1/25/200	2 11:1	9:26 A	M with b	atch 020124lcs6	***************************************	***************************************				
<u>Parameter</u>	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0373	0.0835	1	J	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium	59.2	0.5	1		mg/kg	Nickel		3.65	0.25	1		mg/kg
Beryllium	0.129	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.019	1 0.500	1	J	mg/kg	Silver		ND	0.250	1		rng/kg
Chromium (Total)	4.59	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	4,32	0.25	1		mg/kg	Vanadium		14.2	0.2	1		mg/kg
Copper	5.08	0.50	1		mg/kg	Zinc		21.9	1.0	1		mg/kg
Lead	1.23	0.50	1		mg/kg			2000	100			

RL - Reporting Limit ,

DF - Dilution Factor

Qual - Qualiflers

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ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/24/02

Work Order No:

02-01-1011

Preparation:

Total Digestion

Method:

EPA 6010B / EPA 7471A

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Numb	per			Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	h ID
SB-9-0.5			02-	01-101	1-28	01/24/02	Solid	01/24/02	01/25/02	0	20124	ic10
Comment(s): M	ercury was analyzed on	1/25/2002	2 11:2	2:29 A	M with b	atch 020124lcs6						
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0175	0.0835	1	J	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		0.0592	0.250	1	J	mg/kg
Barium	77.8	0.5	1		mg/kg	Nickel		6.39	0.25	1		mg/kg
Beryllium	0.203	0.250	1	J	mg/kg	Selenium		0.424	0.750	1	J	mg/kg
Cadmium	0.0932	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	7.94	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobelt	6.37	0.25	1		mg/kg	Vanadium		20.3	0.2	1		mg/kg
Copper	9.31	0.50	1		mg/kg	Zinc		35.4	1.0	1		mg/kg
Lead	4.72	0.50	1		mg/kg				771			2 2 2 2
SB-9-7			02-	01-101	1-29	01/24/02	Solid	01/24/02	01/25/02	C	20124	lc10
Comment(s): M	lercury was analyzed on					atch 020124lcs6					20	
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0425	0.0835	1	J	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium	162	0.500	1		mg/kg	Nickel		12.5	0.2	1		mg/kg
Beryllium	0.342	0.250	1		mg/kg	Selenium		1.54	0.75	1		mg/kg
Cadmium	0.219	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	16.8	0.2	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	12.4	0.2	1		mg/kg	Vanadium		40.0	0.2	- 1		mg/kg
Copper	19.9	0.5	1		mg/kg	Zinc		59.5	1.0	1		mg/kg
Lead	3.00	0.50	- 1		mg/kg							372
SB-26-0.5			02-	01-101	1-33	01/24/02	Solid	01/24/02	01/25/02	(20124	lcto
	fercury was analyzed on											
<u>Parameter</u>	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DE	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.154	0.083	1		mg/kg
Arsenic	0.142	0.750	1	J	mg/kg	Molybdenum		0.415	0.250	-1		mg/kg
Barium	199	0.500	1		mg/kg	Nickel		9.49	0.25	1		mg/kg
Beryllium	0.210	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.713	0.500	1		mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	12.4	0.2	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	9.69	0.25	1		mg/kg	Vanadium		33.8	0.2	1		mg/kg
Copper	19.4	0.5	1		mg/kg	Zinc		78.7	1.0	1		mg/kg
Lead	17.4	0.5	1		mg/kg							

RL - Reporting Limit

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240

Long Beach, CA 90802-4432

Date Received:

01/24/02

Work Order No:

02-01-1011

Preparation:

Total Digestion

Method:

EPA 6010B / EPA 7471A

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Nu	mber			Sampi umber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	C	C Bate	th ID
SB-26-7	7		02-	01-101	1-34	01/24/02	Solid	01/24/02	01/25/02		020124	lc10
Comment(s):	Mercury was analyzed on	1/25/200	2 11:3	1:29 A	M with b	atch 020124lcs6						
Parameter	Result	RL	DF	Qual		Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0369	0,0835	1	J	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium	53.2	0.5	1		mg/kg	Nickel		4.11	0.25	1		mg/kg
Beryllium	0.138	0.250	1	1	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.0459	0.500	1	1	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	5.40	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	4.61	0.25	1		mg/kg	Vanadium		15.5	0.2	1		mg/kg
Copper	6.02	0.50	1		mg/kg	Zinc		26.7	1.0	1		mg/kg
Lead	4.69	0.50	1		mg/kg			arra l				-
SB-25-0.5			02-	01-101	1-37	01/24/02	Solid	01/24/02	01/25/02		020124	icto
Comment(s):	Mercury was analyzed on	1/25/200	2 11:3	4:31 A	M with b	atch 020124lcs6						
<u>Parameter</u>	Result	RL	DF	Qual		Parameter		Result	RL	DE	Qual	<u>Units</u>
Antimony	ND	0.750	1		mg/kg	Mercury		0.0329	0.0835	1	J	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium	79.3	0.5	1		mg/kg	Nickel		17.9	0.2	1		mg/kg
Beryllium	0.224	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.269	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	45.6	0.2	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	13.3	0.2	1		mg/kg	Vanadium		64.6	0.2	1		mg/kg
Copper	15.0	0.5	1		mg/kg	Zinc		53.2	1.0	1		mg/kg
Lead	7.29	0.50	1		mg/kg							
SB-25-7			02-	01-101	11-38	01/24/02	Solid	01/24/02	01/25/02		020124	lcs9
Comment(s):	Mercury was analyzed or	1/25/200	2 11:4	3:38 A	M with b	atch 020124lcs4						
Parameter	Result	RL	DF	Qual	Units	<u>Parameter</u>		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0179	0.0835	1		mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium	57.2	0.5	1		mg/kg	Nickel		4.78	0.25	1		mg/kg
Beryllium	0.145	0.250	1	J	mg/kg	Selenium		0.402	0.750	1	J	mg/kg
Cadmium	0.0628	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	6.92	0.25	-1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	5.20	0.25	1		mg/kg	Vanadium		17.6	0.2	1		mg/kg
Copper	6.45	0.50	1		mg/kg	Zinc		27.7	1.0	1		mg/kg
Lead	16.2	0.5	1		mg/kg							- 12

RL - Reporting Limit

DF - Dilution Factor ,

Qual - Qualifiers

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ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240

Long Beach, CA 90802-4432

Date Received:

01/24/02

Work Order No:

02-01-1011

Preparation:

Total Digestion

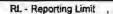
Method:

EPA 6010B / EPA 7471A

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Nun	mber		111111111111111111111111111111111111111	Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	0	C Bato	th ID
SB-24-0.5			02-	01-101	1-41	01/24/02	Solid	01/24/02	01/25/02	O	20124	lcs9
Comment(s):	Mercury was analyzed	on 1/25/2002	11:4	6:39 A	M with ba	tch 020124lcs4						
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0245	0.0835	1	J	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		0.0516	0.250	1	J	mg/kg
Barium	83.4	0.5	1		mg/kg	Nickel		6.07	0.25	1		mg/kg
Beryllium	0.191	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.0868	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	7.87	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	6.29	0.25	1		mg/kg	Vanadium		21.2	0.2	1		mg/kg
Copper	8.66	0.50	1		mg/kg	Zinc		34.6	1.0	1		mg/kg
Lead	5.83	0.50	1		mg/kg							
58-24-7			02-	01-101	1-42	01/24/02	Solid	01/24/02	01/25/02	e	20124	lcs9
Comment(s):	Mercury was analyzed	on 1/25/2002	11:4	9:42 A	M with ba	tch 020124lcs4						
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DE	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0185	0.0835	1	J	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		0.0657	0.250	1	J	mg/kg
Barlum	78.5	0.5	1		mg/kg	Nickel		5.91	0.25	1		mg/kg
Beryllium	0.166	0.250	1	J	mg/kg	Selenium		0.229	0.750	1	J	mg/kg
Cadmium	0.347	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromlum (Total)	6.95	0.25	1		mg/kg	Thalllum		ND	0.750	1		mg/kg
Cobalt	5.98	0.25	1		mg/kg	Vanadium		19.5	0.2	1		mg/kg
Copper	8.28	0.50	1		mg/kg	Zinc		153	1	1		mg/kg
Lead	12.5	0.5	1		mg/kg							
Method Blank			096	-04-00	17-1,290	N/A	Solid	01/24/02	01/24/02	Ç	20124	los4
Parameter	Result	RL	DF	Qual	Units							
Moraum	ND	Gusta I										
Mercury	ND	0.0835	1		mg/kg					, 100		
Method Blank			094	-04-01	7-1,291	NIA	Solid	01/24/02	01/25/02	C	20124	ics6
Parameter	Result	RL	OF	Qual	Units							



ANALYTICAL REPORT

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Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number				Sampl umber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bate	ch ID
Method Blank			097	-01-00	2-3,071	N/A	Solid	01/24/02	01/25/02	020124	ic10
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF Qual	Units
Antimony	ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1	mg/kg
Arsenia	ND	0.750	1		mg/kg	Nickel		ND	0.250	1	mg/kg
Barium	ND	0.500	1		mg/kg	Selenium		ND	0.750	1	mg/kg
Beryllium	ND	0.250	1		mg/kg	Silver		ND	0.250	1	mg/kg
Cadmium	ND	0.500	1		mg/kg	Thallium		ND	0.750	1	mg/kg
Chromium (Total)	ND	0.250	1		mg/kg	Vanadium		ND	0.250	1	mg/kg
Cobalt	ND	0.250	1		mg/kg	Zinc		ND	1.00	1	mg/kg
Copper	0.0474	0.500	1	J	mg/kg	Lead		ND	0.500	1	mg/kg
Method Blank			097	7-01-00	2-3,072	N/A	Solid	01/24/02	01/25/02	020124	lcs9
<u> ≥arameter</u>	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF Qual	Units
Antimony	ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1	mg/kg
Arsenic	ND	0.750	1		mg/kg	Nickel		ND	0.250	1	mg/kg
Barium	ND	0.500	1		mg/kg	Selenium		ND	0.750	1	mg/kg
Beryllium	ND	0.250	1		mg/kg	Silver		ND	0.250	1	mg/kg
Cadmium	ND	0.500	1		mg/kg	Thallium		ND	0.750	1	mg/kg
Chromium (Total)	ND	0.250	1		mg/kg	Vanadium		ND	0.250	1	mg/kg
Cobalt	ND	0.250	1		mg/kg	Zinc		ND	1.00	1	mg/kg
Copper	ND	0.500	1		mg/kg	Lead		ND	0.500	1	mg/kg

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Client Sample Number	and the second second			Sample Imber	e	Date Collected	Matrix	Oate Prepared	Date Analyzed	QC Ba	tch ID
SB-3-2	e-selection	one and the second	02-	01-101	1-26	01/24/02	Solid	01/25/02	01/25/02	02012	43
Parameter .	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF Qua	<u>Units</u>
Alpha-BHC	ND	5.0	1		ug/kg	Endrin		ND	5.0	1	ug/kg
Gamma-BHC	ND	5.0	1		ug/kg	Endrin Aldehyd	е	ND	5.0	1	ug/kg
Beta-BHC	ND	5.0	1		ug/kg	4,4'-DDD		ND	5.0	1	ug/kg
Heptachlor	ND	5.0	1		ug/kg	Endosulfan II		ND	5.0	1	ug/kg
Delta-BHC	ND	5.0	1		ug/kg	4.4'-DDT		ND	5.0	1	ug/kg
Aldrin	ND	5.0	1		ug/kg	Endosulfan Sul	fate	ND	5.0	1	ug/kg
Heptachlor Epoxide	ND	5.0	1		ug/kg	Methoxychlor		ND	5.0	1	ug/kg
Endosulfan I	ND	5.0	1		ug/kg	Chlordane		ND	50	1	ug/kg
Dieldrin	ND	5.0	1		ug/kg	Toxaphene		ND	100	1	ug/kg
4,4'-DDE	ND	5.0	1		ug/kg	Endrin Ketone		ND	5.0	1	ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits	Qua	d
Decachiorobiphenyl	70	50-130				2,4,5,6-Tetrach	loro-m-Xylene	74	50-130		
38-3-5			02-	01-101	1-27	01/24/02	Solid	01/25/02	01/25/02	02012	43
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qua	<u>Units</u>
Alpha-BHC	ND	5.0	1		ug/kg	Endrin		ND	5.0	1	ug/kg
Gamma-BHC	ND	5.0	- 1		ug/kg	Endrin Aldehyd	e	ND	5.0	1	ug/kg
Beta-BHC	ND	5.0	1		ug/kg	4,4'-DDD		ND	5.0	1	ug/kg
Heptachlor	ND	5.0	1		ug/kg	Endosulfan II		ND	5.0	1	ug/kg
Delta-BHC	ND	5.0	1		ug/kg	4,4'-DDT		ND	5.0	1	ug/kg
Aldrin	ND	5.0	1		ug/kg	Endosulfan Sul	fale	ND	5.0	1	ug/kg
Heptachlor Epoxide	ND	5.0	1		ug/kg	Methoxychlor		ND	5.0	1	ug/kg
Endosulfan I	ND	5.0	1		ug/kg	Chlordane		ND	50	1	ug/kg
Dieldrin	ND	5.0	1		ug/kg	Toxaphene		ND	100	1	ug/kg
	AIR	5.0	- 1		ug/kg	Endrin Ketone		ND	5.0	1	ug/kg
4,4'-DDE	ND										
4,4'-DDE Surrogates:	REC (%)	Control		Qual		Surrogates:		REC (%)	Control Limits	Qua	1

RL - Reporting Limit ,

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/24/02 02-01-1011 EPA 3545 EPA 8081A

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Client Sample Number				Sample mber	•	Date Collected Mat	trix	Date Prepared	Date Analyzed	C	C Bato	h ID
Method Blank			099	-07-01	1-17	N/A Sol	id	01/24/02	01/24/02		120124	3
Parameter .	Result	RL	DE	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
Alpha-BHC	ND	5.0	4		ug/kg	Endrin		ND	5.0	1		ug/kg
Gamma-BHC	ND	5.0	1		ug/kg	Endrin Aldehyde		ND	5.0	1		ug/kg
Beta-BHC	ND	5.0	1		ug/kg	4,4'-DDD		ND	5.0	1		ug/kg
Heptachlor	ND	5.0	1		ug/kg	Endosulfan II		ND	5.0	1		ug/kg
Delta-BHC	ND	5.0	1		ug/kg	4,4'-DDT		ND	5.0	1		ug/kg
Aldrin	ND	5.0	1		ug/kg	Endosulfan Sulfate		ND	5.0	1		ug/kg
Heptachlor Epoxide	ND	5.0	1		ug/kg	Methoxychlor		ND	5.0	1		ug/kg
Endosulfan I	ND	5.0	1		ug/kg	Chlordane		ND	50	1		ug/kg
Dieldrin	ND	5.0	1		ug/kg	Toxaphene		ND	100	1		ug/kg
4,4'-DDE	ND	5.0	1		ug/kg	Endrin Ketone		ND	5.0	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits		Qual	
Decachlorobiphenyl	56	50-130				2,4,5,6-Tetrachloro-m	-Xylene	75	50-130			

RL - Reporting Limit .

OF - Dilution Factor ,

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Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/24/02 02-01-1011 EPA 3545

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Client Sample Number				Sample umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	h ID
SB-2-2			02-	01-101	1-23	01/24/02	Sotid	01/25/02	01/25/02	0	20124	3
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DE	Qual	<u>Units</u>
Aroclor-1016	ND	50	1		ug/kg	Arocior-1248		ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254		ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260		ND	50	1		ug/kg
Aroclor-1242	ND	50	3		ug/kg	Aroclor-1262		ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control		Qual	
Decachlorobiphenyl	106	50-130				2,4,5,6-Tetrach	loro-m-Xylene	94	50-130			
SB-2-3			02-	01-101	1-24	01/24/02	Solid	01/25/02	01/25/02	0	20124	3
P <u>arameter</u>	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248		ND	50	1		ug/kg
Araclor-1221	ND	50	1		ug/kg	Aroclor-1254		ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260		ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262		ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits		Qual	
Decachlorobiphenyl	110	50-130				2,4,5,6-Tetrach	ioro-m-Xylene	98	50-130			
SB-2-6	Magazini.		02-	01-101	1-25	01/24/02	Solid	01/26/02	01/25/02	¢	20124	3
Parameter	Result	RL	DE	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aracior-1248		ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254		ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260		ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262		ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits		Qual	
Decachlorobiphenyl	104	50-130				2,4,5,6-Tetrach	loro-m-Xviene	94	50-130			

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Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/24/02 02-01-1011 EPA 3545

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SB-25-0.6			02-	01-101	1-37	01/24/02	Solid	01/25/02	01/25/02	020124	3
Parameter	Result	RL	DE	Qual	Units	<u>Parameter</u>		Result	RL	DF Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248		ND	50	1	ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254		ND	50	1	ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260		ND	50	1	ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262		ND	50	1	ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control	Qual	
Decachlorobiphenyl	88	50-130				2,4,5,6-Tetrach	loro-m-Xylene	82	50-130		
SB-25-7			02-	01-101	1-38	01/24/02	Solid	01/25/02	01/25/02	020124	3.
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248		ND	50	1	ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254		ND	50	1	ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260		ND	50	1	ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262		ND	50	1	ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits	Qual	
Decachlorobiphenyl	94	50-130				2,4,5,6-Tetrach	loro-m-Xylene	82	50-130		
Method Blank			098	-07-00	9-23	NIA	Solid	01/24/02	01/25/02	020124	3
Parameter	Result	RL	DE	Qual	<u>Units</u>	Parameter		Result	RL	DF Qual	Units
Aroclor-1016	ND	50	1		ид/кд	Aroclor-1248		ND	50	1	ug/kg
Aroclor-1221	ND	50	1		ug/kg	Arocior-1254		ND	50	1	ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260		ND	50	1	ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262		ND	50	1	ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits	Qual	
Decachlorobiphenyl	77	50-130				2,4,5,6-Tetrach	loro-m-Xviene	69	50-130		

RL - Reporting Limit

DF - Dilution Factor .

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Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation:

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rioject. Hrizman		14.04017	1,00	4							
Client Sample Number				Sample umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC E	atch ID
58-9-0.5			02-	01-101	1-28	01/24/02	Solid	01/28/02	01/28/02	0201	271
Parameter	Result	RL	DF	Oual	Units	Parameter		Result	RL	DF Qu	al Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248		ND	50	1	ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254		ND	50	1	ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260		ND	50	1	ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262		ND	50	1	ug/kg
Surrogates:	REC (%)	Control		Qual		Surrogates:		REC (%)	Control	Q	<u>ial</u>
Decachlorobiphenyl	82	50-130				2,4,5,6-Tetrach	loro-m-Xylene	80	50-130		
SB-9-7			02-	01-101	1-29	01/24/02	Solid	01/28/02	01/28/02	020	271
² arameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF O	al Units
Aroclor-1018	ND	50	1		ug/kg	Aroclor-1248		ND	50	1	ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254		ND	50	1	ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260		ND	50	1	ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262		ND	50	1	ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits	Q	<u>ral</u>
Decachlorobiphenyl	84	50-130			100000	2,4,5,6-Tetrach	loro-m-Xylene	81	50-130		
Method Blank			09	9-07-00	9-25	N/A	Solid	01/27/02	01/28/02	020	274
Parameter	Result	RL	DE	Qual	<u>Units</u>	Parameter		Result	RL	DF Q	ual Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248		ND	50	1	ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254		ND	50	1	ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260		ND	50	1	ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262		ND	50	1	ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits	Q	ial .
Decachlorobiphenyl	76	50-130				2,4,5,6-Tetrach	loro-m-Xylene	73	50-130		

RL - Reporting Limit ,

DF - Dilution Factor .

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation:

02-01-1011 **EPA 3545**

01/24/02

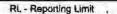
Method:

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Client Sample Number				Sampl mber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QCI	Batch ID
\$6-12-0.5			02-0	1-101	1-1	01/24/02	Solid	01/25/02	01/25/02	020	101253
Parameter	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF Q	ual Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1	mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	77	ND	0.50	1	mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1	mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl			0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	V V-21-41 2-01-0-	ND	0.40	1	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/k
Ris(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1	mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1	mg/k
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	1	mg/k
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1	mg/k
Isophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1	mg/k
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1	mg/k
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1	mg/k
Benzolc Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1	mg/k
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	diate	ND	0.40	1	mg/k
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10		mg/k
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1	mg/k
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1	mg/k
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pi	nthalate	ND	0.50	1	mg/k
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1	mg/k
4-Chloro-3-Methylphenol	ND	D.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1	mg/k
2-Methylnaphthalene	ND	0,40	1		mg/kg	Bis(2-Ethylhex)		ND	0.50	4	mg/k
1-Methylnaphthalene	ND	0.40	4		mg/kg	Chrysene	(i) i illinarate	ND	0.40	4	mg/k
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	4	mg/k
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1	mg/k
2-Chloronaphthalene	ND	0.50	- 1		mg/kg	Benzo (b) Fluo		ND	0.40	4	mg/k
2-Nitroaniline	ND	0,50	1		mg/kg	Benzo (a) Pyre		ND	0.35	4	mg/k
Dimethyl Phthalate	ND	0.50			mg/kg	Indena (1,2,3-c		ND	0.40	4	mg/k
Acenaphthylene	ND	0.40	4		mg/kg	Dibenz (a,h) A	The state of the s	ND	0.40	4	mg/k
3-Nitroaniline	ND	0.50	4			Benzo (g,h,i) P		ND	0.40	1	
Acenaphthene	ND	0.40	1		mg/kg mg/kg	Denizo (9,11,1) F	al ylene	, TO	0.40	-	mg/k
Surrogates:	REC (%)	Control		Qua		Surrogates:		REC (%)	Control	<u>c</u>	lual
2 Flynnachaust	00	Limits				Dhanel 40		94	Limits		
2-Fluorophenol	82	31-142				Phenol-d6		84	30-136		
litrobenzene-d5	82	28-139				2-Fluorobiphen		79	33-144		
≥,4,6-Tribromophenol	70	24-152				p-Terphenyl-d1	4	77	23-160		



DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/24/02 02-01-1011 EPA 3545

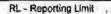
Method:

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Client Sample Number				Sampl mber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	QC E	Batch ID
\$9-12-7			02-0	1-101	1-2	01/24/02	Solid	01/25/02	01/25/02	0201	01253
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Q	ual Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	lol	ND	2.5	1.	mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1	mg/kg
henol	ND	0.50	1	т.	mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
3is(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ene	ND	0.50	1	mg/kg
-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ne	ND	0.50	1	mg/kg
,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	ite	ND	0.50	1	mg/kg
,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chloropheny		ND	0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1	mg/kg
.2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0,50	1	mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	lethylphenol	ND	2.5	1	mg/kg
1/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe	- 10 - 40 - 40 - 10 - 10 - 10 - 10 - 10	ND	0.50	1	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1	mg/kg
lexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	1	mg/kg
Vitrobenzene	ND	2.5	1		mg/kg	Hexachloroben	of the late of the same of the	ND	0.50	1	mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachloroph	enol	ND	2.5	1	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	nalate	ND	0.50	1	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1	mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	3	mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl P	hthalate	ND	0.50	1	mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe	enzidine	ND	0.50	1	mg/kg
4-Chlora-3-Methylphenal	ND	0.50	1		mg/kg	Benzo (a) Anth	гаселе	ND	0.40	1	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex	yl) Phthalate	ND	0.50	1	mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	ACL OFFICE OF	ND	0.40	1	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phtl	halate	ND	0.50	1	mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo	ranthene	ND	0.40	1	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo	ranthene	ND	0.40	1	mg/kg
2-Nítroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre	ene	ND	0.35	1	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-	c,d) Pyrene	ND	0.40	1	mg/kg
Acenaphthylene	ND	0,40	1		mg/kg	Dibenz (a,h) A	and the second second	ND	0.40	1	mg/kg
3-Nitroaniline	NO	0.50	1		mg/kg	Benzo (g,h,i) F		ND	0.40	1	mg/kg
Acenaphthene	ND	0.40	1		mg/kg	20.000					- C
Surrogates:	REC (%)	Control Limits		Qua		Surrogates:		REC (%)	Control Limits	. 0	ual
2-Fluorophenol	76	31-142				Phenol-d6		78	30-136		
Vitrobenzene-d5	78	28-139				2-Fluorobipher	nyl	77	33-144		
2,4,6-Tribromophenol	64	24-152				p-Terphenyl-d		75	23-160		



DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

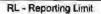
Method:

01/24/02 02-01-1011 EPA 3545 EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Bato	h ID
SB-18-0.5			02-4	21-101	1-6	01/24/02	Solid	01/25/02	01/25/02	92	9101	253
<u>Parameter</u>	Result	RL	DF	Qual	Units	Parameter		Result	RL	DE !	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	lol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	2,500	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
3is(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop	Carried Manager	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny		ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	_ 1		mg/kg	Fluoranthene	200	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pl	nthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene		ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	nalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	S STATE OF THE STA			20.00			
Surrogates:	REC (%)	Control Limits		Qua		Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	79	31-142				Phenol-d6		83	30-136			
litrobenzene-d5	85	28-139				2-Fluorobiphen	IV!	81	33-144			
2,4,6-Tribromophenol	70	24-152				p-Terphenyl-d1		79	23-160			



DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/24/02 02-01-1011 EPA 3545 EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

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SB-18-7 Parameter						Collected	Matrix	Prepared	Analyzed	u	C Dak	h ID
arameter			02-0	11-101	1-7	01/24/02	Solid	01/25/02	01/25/02	0	20101	253
	Result	RL	<u>DF</u>	Qual	Units	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	4		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	4		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalai		ND	0.50	1		mg/kg
,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	o regular messes	ND	0.40	1		mg/kg
,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	thylphenol	ND	2.5	1		mg/kg
4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/kg
dexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl		36.46	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2,5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	- 1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND .	0.50	1		mg/kg	Fluoranthene	diate	ND	0.40	7		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
1-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pr	thalate	ND	0.50	1		mg/kg
Hexachioro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
1-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)		ND	0.50	1		mg/kg
I-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	i) i iniialate	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluor		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Dirnethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	001120 (g,(1,1)) F	SI JIOITE	ND	0.40			myrky
Surrogates:	REC (%)	Control Limits		Qua	202-25	Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	78	31-142				Phenol-d6		81	30-136			
litrobenzene-d5	80	28-139				2-Fluorobiphen	ol.	77	33-144			
2,4,6-Tribromophenol	67	24-152				p-Terphenyl-d1		77	23-160			

RL - Reporting Limit ,

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

02-01-1011 EPA 3545

01/24/02

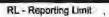
Method:

EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number				Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Ba	atch IO
SB-17-0.5	· · · · · · · · · · · · · · · · · · ·	4	02-	01-101	1-10	01/24/02	Solid	01/25/02	01/25/02	0201	01253
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF Qua	al Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropher	loi	ND	2.5	1	mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	47.4	ND	0.50	1	mg/kg
Phenol	ND	0,50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ine	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	38-5	ND	0.50	1	mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chloropheny		ND	0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	, menginano,	ND	0.40	1	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/kg
his(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenni	ND	2.5	1	mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1	mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	1	mg/kg
Nitrobenzene	ND	2.5	4		mg/kg	Hexachloroben		ND	0.50	1	mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophi		ND	2.5	1	mg/kg
2-Nitrophenol	ND	0.50	1			Phenanthrene	Brior	ND	0.40	1	mg/kg
	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1	F 17 F 17 F
2,4-Dimethylphenol	A.77%	2.5	- 2		mg/kg	Control of the Contro	ALEXE.	ND	0.40		mg/kg
Benzoic Acid	ND		1		mg/kg	Di-n-Butyl Phth	lalate		100	1	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50			mg/kg	Fluoranthene		ND -	0.40	1	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	- 3		mg/kg	Pyrene		ND	0.40	1	mg/kg
Naphthalene	ND	0.40	3		mg/kg	Pyridine	in the	ND	0.50	1	mg/kg
4-Chloroaniline	ND	0.50	3		mg/kg	Butyl Benzyl P		ND	0.50	- 1	mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1	mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex	yl) Phthalate	ND	0.50	1	mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene		ND	0.40	1	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Pht	52-6-57	ND	0.50	1	mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1	mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibanz (a,h) A		ND	0.40	7	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1	mg/kg
Acenaphthene	ND	0.40	1		mg/kg						
Surrogates:	REC (%)	Control Limits		Qua	1	Surrogates:		REC (%)	Control Limits	Qu	ial
2-Fluorophenol	72	31-142				Phenol-d6		76	30-136		
litrobenzene-d5	75	28-139				2-Fluorobipher	lyc	74	33-144		
2,4,6-Tribromophenol	62	24-152				p-Terphenyl-d	The same of the sa	73	23-160		



DF - Dilution Factor ,

Lalscience nvironmental aboratories, Inc.

ANALYTICAL REPORT

 Earth Tech
 Date Received:
 01/24/02

 100 West Broadway, Suite 240
 Work Order No:
 02-01-1011

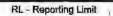
 Long Beach, CA 90802-4432
 Preparation:
 EPA 3545

 Method:
 EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	Bato	h ID
S8-17-7		<u> </u>	02-	01-101	1-11	01/24/02	Solid	01/25/02	01/25/02	ð.	0101	253
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF .	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	7		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	te	ND	0.50	1		mg/kg
1.4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl			0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
3is(2-Chloroisopropyl) Ether	ND	0,50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2,5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop	henol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl		ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben	The state of the s	ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe	nol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0,50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Ph	thalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe	nzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth	racene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexy	I) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene		ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor	anthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluor	ranthene	ND	0.40	1		mg/kg
2-Nitroanlline	ND	0.50	1		mg/kg	Benzo (a) Pyre	ne	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	- 1		mg/kg	Indeno (1,2,3-c	,d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar	thracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg		2.					100
Surrogates:	REC (%)	Control Limits		Qua		Surrogates:		REC (%)	Control Limits	Ŋ	Qual	
2-Fluorophenol	85	31-142				Phenol-d6		88	30-136			
Vitrobenzene-d5	88	28-139				2-Fluorobiphen	yl	86	33-144			
2,4,6-Tribromophenol	77	24-152				p-Terphenyl-d1		88	23-160			



DF - Dilution Factor ,

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/24/02 02-01-1011 EPA 3545

Method:

EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number			Lab Sa Num		Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Batch ID
SB-16-0.5			02-01	-1011-14	01/24/02	Solld	01/25/02	01/25/02	020	1101253
Parameter	Result	RL	DE C	Qual Units	Parameter		Result	RL	DF C	lual Units
N-Nitrosodimethylamine	ND	0.50	1	mg/kg	2,4-Dinitropheno	t	ND	2.5	1	mg/kg
Aniline	ND	0.50	1	mg/kg	4-Nitrophenol		ND	0.50	1	mg/kg
Phenol	ND	0.50	1	mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1	mg/kg	2,4-Dinitrotoluen	e	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1	mg/kg	2,6-Dinitrotoluen		ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1	mg/kg	Diethyl Phthalate		ND	0.50	1	mg/kg
1,4-Dichlorobenzene	ND	0.50	1	mg/kg	4-Chlorophenyl-l			0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1	mg/kg	Fluorene	Managa Emiles	ND	0.40	1	mg/kg
1,2-Dichlorobenzene	ND	0.50	1	mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1	mg/kg	Azobenzene		ND	0.50	1	mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1	mg/kg	4,6-Dinitro-2-Me	thylphenoi	ND	2.5	1	mg/kg
3/4-Methylphenol	ND	0.50	1	mg/kg	N-Nitrosodiphen	1.4	ND	0.50	1	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1	mg/kg	2,4,6-Trichloropl		ND	0.50	1	mg/kg
-lexachioroethane	ND	0.50	1	mg/kg	4-Bromophenyl-			0.50	1	mg/kg
Nitrobenzene	ND	2.5	1	mg/kg	Hexachlorobenz		ND	0.50	1	mg/kg
sophorone	ND	0.50	1	mg/kg			ND	2.5	1	mg/kg
2-Nitrophenol	ND	0.50	4	mg/kg	Pentachlorophenol Phenanthrene		ND	0.40	1	mg/kg
2,4-Dimethylphenol	ND	0.50	1	mg/kg	Anthracene		ND	0.40	1	mg/kg
Benzolc Acid	ND	2.5	1	mg/kg	Di-n-Butyl Phtha	late	ND	0.50	1	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1	mg/kg	Fluoranthene	iidic	ND	0.40	1	mg/kg
2,4-Dichlorophenol	ND	0.50	1	mg/kg	Benzidine		ND	10	1	mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1	mg/kg	Pyrene		ND	0.40	1	mg/kg
Naphthalene	ND	0.40	1	mg/kg	Pyridine		ND	0.50	1	mg/k
4-Chloroaniline	ND	0.50	1	mg/kg	Butyl Benzyl Ph	thalate	ND	0.50	1	mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1	mg/kg	3,3'-Dichlorober		ND	0.50	1	mg/kg
4-Chloro-3-Methylphenol	ND	0.50	i	mg/kg	Benzo (a) Anthr	2027-07-04	ND	0.40	1	mg/k
2-Methylnaphthalene	ND	0.40	1	mg/kg	Bis(2-Ethylhexyl		ND	0.50	1	mg/k
1-Methylnaphthalene	ND	0.40	1	mg/kg	Chrysene) Fillingiate	ND	0.40	1	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1	mg/kg	Di-n-Octyl Phtha	alata	ND	0.50	1	mg/kg
2,4,5-Trichlorophenol	ND	0.50	1	mg/kg	Benzo (k) Fluora		ND	0.40	1	mg/k
2-Chloronaphthalene	ND	0.50	1	mg/kg	Benzo (b) Fluori		ND	0.40	1	mg/k
2-Nitroaniline	ND	0.50	1	mg/kg	Benzo (a) Pyrer		ND	0.35	1	mg/k
Dimethyl Phthalate	ND	0.50	1	mg/kg	Indeno (1,2,3-c,		ND	0.40	1	mg/k
(M. 17 N. M. 18 M. A.	ND	0.50	4	mg/kg	Dibenz (a,h) An	75 M N Inch L	ND	0.40	1	mg/k
Acenaphthylene	ND	0.50			Benzo (g,h,i) Pe		ND	0.40	1	0.00
3-Nitroaniline Acenaphthene	ND	0.40	1	mg/kg mg/kg	Denzo (gina) Pe	a Pierie	(40)	0.40	1	mg/k
A CONTRACTOR OF THE CONTRACTOR			-		20.000		DEO #4			
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:		REC_(%)	Control Limits		Qual
2-Fluorophenol	80	31-142			Phenol-d6		83	30-136		
Vitrobenzene-d5	82	28-139			2-Fluorobipheny	/1	82	33-144		
2,4,6-Tribromophenol	72	24-152	33		p-Terphenyl-d14	4	84	23-160		

RL - Reporting Limit

DF - Dilution Factor

Calscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation:

Method:

02-01-1011 EPA 3545 EPA 8270C

01/24/02

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Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number			Lab S Nun	ample nber	1	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	ch ID
SB-16-7			02-0	1-1011	1-15	01/24/02	Solid	01/25/02	01/25/02	0/	20101	253
Parameter	Result	RL	DE !	Qual	Units	Parameter		Result	RL	DF	Quai	Units
N-Nitrosodimethylamine	ND	0.50	1	1	mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Anlline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ne	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodipher		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/kg
dexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl		ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	NO	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	2007 130	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Ph	thalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexy		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	* 1. ILIV BOTOS	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Велzo (k) Fluor		ND	0.40	1		mg/kg
Z-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluor		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre	DOUGLE ST. B.	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar	The second secon	ND	0.40	1		mg/kg
3-Nitroanitine	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg		. 8. 4800	27.1				-
Surrogates:	REC (%)	Control Limits		Qual	11-21-12	Surrogates:		REC (%)	Control	ļ, c	Qual	
2-Fluorophenol	80	31-142				Phenol-d6		83	30-136			
Vitrobenzene-d5	82	28-139				2-Fluorobiphen	vI	80	33-144			
2,4,6-Tribromophenol	69	24-152				p-Terphenyl-d1		80	23-160			

RL - Reporting Limit ,

DF - Dilution Factor ,

Calscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/24/02 02-01-1011

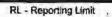
Method:

EPA 3545 EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number			and or any	Sampl mber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	C	C Bate	h ID
SB-15-0.5			02-0	14-101	1-19	01/24/02	Solid	01/25/02	01/25/02	•)20191	253
Parameter .	Result	RL	DF	Qual	Units	Parameter		Result	RL	DE	Qual	<u>Units</u>
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ne	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalai	te	ND	0.50	1		mg/kg
.4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl	Phenyl Ether		0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop	Carried Control of the Control of th	ND	0.50	1		mg/kg
texachioroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	4		mg/kg
Vitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe	24.70	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alata	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	uluto	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pt	thelate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40			mg/kg	Chrysene	n) Filtralace	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alato	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		1 100	Benzo (b) Fluor		ND	0.40	1		
z-Chloronaphthalene 2-Nitroaniline	ND	0.50	1		mg/kg			ND	0.40			mg/kg mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND		1		
	70074	0.50	4		mg/kg	Indeno (1,2,3-c	A Committee of the Comm		0.40	1		mg/kg
Acenaphthylene 3-Nitroaniline	ND	0.40	4		mg/kg	Dibenz (a,h) Ar		ND ND	1027/12	4		mg/kg
North College and College College	ND ND		1		mg/kg	Benzo (g,h,i) P	eryiene	MD	0.40	1		mg/kg
Acenaphthene		0.40	1	2	mg/kg	1 Brown 10 10 7			A. Carrier		2.73	
Surrogates:	REC (%)	<u>Control</u> <u>Limits</u>		Qua		Surrogates:		REC (%)	Control Limits	2	Qual	
2-Fluorophenol	78	31-142				Phenol-d6		82	30-136			
Vitrobenzene-d5	82	28-139				2-Fluorobiphen	yl	77	33-144			
2,4,6-Tribromophenol	67	24-152				p-Terphenyl-d1		79	23-160			



DF - Dilution Factor ,

Lalscience nvironmental aboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/24/02 02-01-1011 EPA 3545

Method:

EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number				Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Bato	h ID
SB-15-7			02-	01-101	1-20	01/24/02	Solid	01/25/02	01/25/02	02	0101	263
<u>Parameter</u>	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF 9	Qual	<u>Units</u>
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl			0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	7.112131-1112	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
lis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/kg
Hexachlorgethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben	the state of the s	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophe	enol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pl	nthalate	ND	0.50	7		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe	nzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth	racene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)	(I) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene		ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo	ranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo	ranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre	ne	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c	d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar	nthracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg							-
Surrogates:	REC (%)	Control Limits	91	Qua		Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	78	31-142				Phenol-d6		81	30-136			
litrobenzene-d5	79	28-139				2-Fluorobiphen	i¥!	78	33-144			
2,4,6-Tribromophenol	66	24-152				p-Terphenyl-d1		76	23-160			

RL - Reporting Limit ,

DF - Dilution Factor ,

Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Lalscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation: 01/24/02 02-01-1011 EPA 3545

Method:

EPA 3545 EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
SB-2-2			02-	61-101	1-23	01/24/02	Solid	01/25/02	01/25/02	C	20101	253
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DE	Qual	<u>Units</u>
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropheno	oi .	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluer	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluer		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalat		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-			0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	11-12 (0-10)	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
3is(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	thylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodipher		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	- 1		mg/kg	4-Bromophenyl-			0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenz	Charles and the second second	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phtha	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	4		mg/kg	Benzidine		ND	10	- 1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50			mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	-		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	4		mg/kg	Butyl Benzyl Ph	thalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	4		mg/kg	3,3'-Dichlorober		NO	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthe		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	4		mg/kg	Bis(2-Ethylhexy		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	/ Filialists	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	-		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluor		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	4		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) An		ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	4		A	Benzo (g,h,i) Po		ND	0.40			
Acenaphthene	ND	0.40	1		mg/kg mg/kg	Denzo (9,11,1) P	or yielia	110	0.40	4		mg/kg
Surrogates:	REC (%)	Control		Qua		Surrogates:		REC (%)	Control		Qual	
2-Fluorophenol	73	Limits 31-142	Č.			Phenol-d6		78	30-136			
2-riuorophenoi litrobenzene-d5	73 75	28-139				2-Fluorobiphen	ol .	76	33-144			
						p-Terphenyl-d1		79	23-160			
2,4,6-Tribromophenol	66	24-152				p-resphenyi-di	4	19	23-100			

RL - Reporting Limit

DF - Dilution Factor ,

Lalscience nvironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/24/02 02-01-1011 EPA 3545 EPA 8270C

Method:

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Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number				Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bate	ch ID
\$8-2-3			02-	01-101	1-24	01/24/02	Solid	01/25/02	01/25/02	020101	253
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF Qual	<u>Units</u>
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1	mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1	mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1	mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chloropheny		ND	0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	- 1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1	mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe	Contract to the second second	ND	0.50	4	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1	mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny		100	0.50	1	mg/kg
Nitrobenzene	ND	2.5	-		mg/kg	Hexachloroben	ACTUAL TO SECURITION OF THE PARTY OF THE PAR	ND	0.50	1	mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophi		ND	2.5	1	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	31101	ND	0.40	1	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	4	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	alate	ND	0.40	1	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1	mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1	mg/kg
Naphthalene	ND	0.40	i		mg/kg	Pyridine		ND	0.50	1	mg/kg
4-Chloroaniline	ND	0.50	-		mg/kg	Butyl Benzyl P	hthalata	ND	0.50	1	mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	4		mg/kg	3,3'-Dichlorobe		ND	0.50	1	mg/kg
4-Chloro-3-Methylphenol	ND	0.50	4		mg/kg	Benzo (a) Anth		ND	0.40	1	mg/kg
2-Methylnaphthalene	ND	0.40	4		mg/kg	Bis(2-Ethylhex		ND	0.50	1	mg/kg
	ND	0.40	1		mg/kg	Chrysene	yi) Fillialate	ND	0.40	1	mg/kg
1-Methylnaphthalene Hexachlorocyclopentadiene	ND	1.5	4		mg/kg	Di-n-Octyl Phth	nalata	ND	0.50	1	mg/kg
2,4,5-Trichlorophenol	ND	0.50	4		mg/kg	Benzo (k) Fluo		ND	0.40	1	mg/kg
	ND	0.50				Benzo (b) Fluo		ND	0.40	1	
2-Chloronaphthalene 2-Nitroaniline	ND	0.50	1		mg/kg			ND	0.40	1	mg/kg
					mg/kg	Benzo (a) Pyre					mg/kg
Dimethyl Phthalate	ND ND	0.50			mg/kg	Indeno (1,2,3-c	Control of the Contro	ND ND	0.40	4	mg/kg
Acenaphthylene			-		mg/kg	Dibenz (a,h) A				3	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1	mg/kg
Acenaphthene	ND	0.40	1	-	mg/kg	name of the		222.07	-		
Surrogates:	REC (%)	<u>Control</u> <u>Limits</u>		Qua	Ī	Surrogates:		REC (%)	<u>Control</u> <u>Limits</u>	40.2	
2-Fluorophenol	80	31-142				Phenol-d6		84	30-136		
Vitrobenzene-d5	84	28-139				2-Fluorobipher		83	33-144		
2,4,6-Tribromophenol	72	24-152				p-Terphenyl-d	14	84	23-160		

RL - Reporting Limit

DF - Dilution Factor ,

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/24/02 02-01-1011 EPA 3545

Method:

EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bat	ch ID
SB-2-5			024	01-101	1-25	01/24/02	Solid	01/25/02	01/25/02	02010	1253
<u>Parameter</u>	Result	RL	DE	Qual	<u>Units</u>	Parameter		Result	RL	DF Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1	mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1	mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1	mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	2 11 10 21 11 11 11	ND	0.40	1	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/kg
Ris(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1	mg/kg
/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	4	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1	mg/kg
dexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl		ND	0.50	1	mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben	The state of the s	ND	0.50	1	mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	21101	ND	0.40	1	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alata	ND	0.50	1	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	aiate	ND	0.40	1	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1	mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1	mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pi	atholata	ND	0.50	1	mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1	mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1	
2-Methylnaphthalene	ND	0.40	1		mg/kg			ND	0.50	1	mg/kg
1-Methylnaphthalene	ND	0.40	1			Bis(2-Ethylhex) Chrysene	n) Finnalate	ND	0.40		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg		minto	ND	0.40	1	mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Di-n-Octyl Phth Benzo (k) Fluor	and the second second	ND	0.40	1	mg/kg
		0.50	1		mg/kg						mg/kg
2-Chloronaphthalene 2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pura		ND	0.40	1	mg/kg
	ND ND	200	4		mg/kg	Benzo (a) Pyre		ND	0.35		mg/kg
Dimethyl Phthalate		0.50	- 1		mg/kg	Indeno (1,2,3-c		ND	0.40	1	mg/kg
Acenaphthylene	ND	0.40			mg/kg	Dibenz (a,h) Ar		ND	0.40	1	mg/kg
3-Nitroanilina	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	4	mg/kg
Acenaphthene	ND	0.40	1	2	mg/kg	24.54.54.54		and some of the same of the sa			
Surrogates:	REC (%)	<u>Control</u> <u>Limits</u>		Qua	1	Surrogates:		REC (%)	Control Limits	Qual	
2-Fluorophenol	73	31-142				Phenol-d6		77	30-136		
litrobenzene-d5	76	28-139				2-Fluorobiphen	yl	73	33-144		
4,4,6-Tribromophenol	62	24-152				p-Terphenyl-d1	3.0	72	23-160		



DF - Dilution Factor

Lalscience Invironmental Laboratories, Inc.

Project: 47127/LAUSD EAST VALLEY M.S.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

Method:

01/24/02 02-01-1011 EPA 3545 EPA 8270C

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Client Sample Number				Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
SB-3-2			02-	01-101	1-26	01/24/02	Solid	01/25/02	01/25/02	0	20101	253
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DE	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropheno	nl	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/k
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/k
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluer	ie:	ND	0.50	1		mg/k
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluer		ND	0.50	1		mg/k
1.3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalat		ND	0.50	1		mg/k
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-			0.50	1		mg/k
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	, many, many	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroanlline		ND	0.50	1		mg/k
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/k
3is(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	thylphenol	ND	2.5	1		mg/k
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodipher		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/k
Hexachioroethane	ND	0.50	1		mg/kg	4-Bromophenyl-			0.50	1		mg/kg
Vitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenz		ND	0.50	1		mg/k
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/k
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	,,,,,	ND	0.40	1		mg/k
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/k
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phtha	alate	ND	0.50	1		mg/k
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/k
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/k
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/k
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/k
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Ph	thalate	ND	0.50	1		mg/k
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorober		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthr		ND	0.40	1		mg/k
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexy		ND	0.50	1		mg/k
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	Q I minusare	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phtha	alate	ND	0.50	1		mg/k
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/k
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluor		ND	0.40	1		mg/k
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrer		ND	0.35	1		mg/k
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,		ND	0.40	4		mg/k
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) An	A Company of A company	ND	0.40	1		mg/k
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Pe		ND	0.40	1		mg/k
Acenaphthene	ND	0.40	1		mg/kg	20' mo (Aliti) L.	- Your		4.19	-		mg/n
Surrogates:	REC (%)	Control	110	Qua	1100	Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	79	31-142				Phenol-d6		82	30-136			
Vitrobenzene-d5	82	28-139				2-Fluorobiphen	d	79	33-144			
2,4,6-Tribromophenol	67	24-152				p-Terphenyl-d1		79	23-160			

RL - Reporting Limit

DF - Dilution Fector .

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

Method:

01/24/02 02-01-1011 EPA 3545 EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number				Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Batc	h ID
SB-3-5			02-	01-101	1-27	01/24/02	Solid	01/25/02	01/25/02	020	0101	253
Parameter	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF C	lual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropheno	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluer	ie	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluer		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalat		ND	0.50	1		mg/kg
,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-			0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
3is(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	thylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodipher		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	4		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-	Company of the last way with the second		0.50	4		mg/kg
Vitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenz		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2,5	1		mg/kg	Di-n-Butyl Phtha	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	- 1		mg/kg	Fluoranthene		ND	0.40	4		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	4		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Ph	thalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorober		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthr		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexy		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	4		mg/kg	Chrysene	i) i iniioidio	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	- 4		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	,		mg/kg	Benzo (b) Fluor		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	- 4		mg/kg	Benzo (a) Pyrei		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	4		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) An		ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	4			Benzo (g,h,i) Pe		ND	0.40	4		mg/kg
Acenaphthene	ND	0.40	1		mg/kg mg/kg	Delizo (g,11,1) Pe	a yieric	IAL	0.40			uiging
Surrogates:	REC (%)	Control Limits		Qua		Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	85	31-142				Phenol-d6		88	30-136			
litrobenzene-d5	88	28-139				2-Fluorobiphen	d	85	33-144			
2,4,6-Tribromophenol	72	24-152				p-Terphenyl-d1		85	23-160			
E,7,0-1 indication handi	12	24-102				p-resphenyi-di	4.	00	23-100			

RL - Reporting Limit

DF - Dilution Factor ,

Lalscience nvironmental aboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/24/02 02-01-1011 EPA 3545 EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number				Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
3.0-9-82			02-	01-101	1-28	01/24/02	Solid	01/25/02	01/26/02	C	20101	253
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropheno	1	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluen	e	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluen		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-F		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	notifi Emoi	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
3is(2-Chloroisopropyl) Ether	ND	0.50	4		mg/kg	4,6-Dinitro-2-Met	hylphenol	ND	2.5	1		mg/kg
3/4-Methylphenal	ND	0.50	1		mg/kg	N-Nitrosodiphen		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloroph		ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	- 1		mg/kg	4-Bromophenyl-l			0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenze	The second secon	ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachloropher		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phtha	late	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	iato	ND	0.40	7		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridins		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phi	halate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichloroben		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthra		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl)		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	, i minata	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phtha	late	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluora		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluora		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyren		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,0		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ant	10° 10° 10° 10° 10° 10° 10° 10° 10° 10°	ND	0.40	TA.		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Pe		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	22.120 (Birth) I.E	Julio	1.0	9.40			11.9.43
Surrogates:	REC (%)	Control		Qua		Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	B1	31-142				Phenol-d6		84	30-136			
Vitrobenzene-d5	81	28-139				2-Fluorobipheny		82	33-144			
2,4,6-Tribromophenol	68					p-Terphenyl-d14						
z,-,o- moromophenoi	00	24-152				p-Telphenyl-014	25	80	23-160			

RL - Reporting Limit ,

DF - Dilution Factor ,

Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/24/02 02-01-1011 EPA 3545

Method:

EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number				Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Ba	ich ID
SB-9-7			02-	01-101	1-29	01/24/02	Solid	01/25/02	01/28/02	02010	1253
Parameter	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF Qua	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	4	mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1	mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1	mg/kg
1.3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1	mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1	mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe	the second secon	ND	0.50	1	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop	A A CONTRACTOR OF THE PARTY OF	ND	0.50	1	mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny		ND	0.50	1	mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1	mg/kg
sopharone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	STICE .	ND	0.40	1	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alata	ND	0.50		
	ND	0.50	1			Fluoranthene	diate	ND	0.40	1	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Benzidine		ND			mg/kg
2,4-Dichlorophenol	3,816.1				mg/kg	- Charles and Charles			10	1	mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	LIE-LOID	ND	0.50	1	mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pl		ND	0.50	1	mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1	mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)	yl) Phthalate	ND	0.50	1	mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	0 V 4 V	ND	0.40	1	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth		ND	0.50	1	mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo	KIND SHITTER	ND	0.40	1	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1	mg/kg
Dimethyl Phthalate	ND	0,50	1		mg/kg	Indeno (1,2,3-c	A	ND	0.40	1	mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A		ND	0.40	1	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1	mg/kg
Acenaphthene	ND	0.40	1		rng/kg						
Surrogates:	REC (%)	Control Limits		Qua	1	Surrogates:		REC (%)	Control Limits	Qua	1
2-Fluorophenol	79	31-142				Phenol-d6		84	30-136		
Vitrobenzene-d5	83	28-139				2-Fluorobipher	ivi	82	33-144		
2,4,6-Tribromophenol	68	24-152				p-Terphenyl-d1		79	23-160		

RL - Reporting Limit

DF - Dilution Factor ,

Qual - Qualifiers

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Lalscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/24/02 02-01-1011 EPA 3545

Method:

EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number				Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Batch ID
SB-26-0.5			02-0	01-101	1-33	01/24/02	Solid	01/25/02	01/26/02	020	101263
Parameter	Result	RL	DE	Qual	Units	Parameter		Result	RL	DE Q	ual Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1	mg/k
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	0.	ND	0.50	1	mg/k
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/k
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	пе	ND	0.50	1	mg/k
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1	mg/k
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1	mg/k
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl			0.50	1	mg/k
Berizyl Alcohol	ND	0.50	1		mg/kg	Fluorene	. nony. zane.	ND	0.40	1	mg/k
1,2-Dichlorobenzene	ND	0.50	- 1		mg/kg	4-Nitroanlline		ND	0.50	1	mg/k
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/k
Ris(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1	mg/k
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1	mg/k
N-Nitroso-di-n-propylamine	ND	0.50	4		mg/kg	2,4,6-Trichloro		ND	0.50	1	mg/k
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny	the state of the s		0.50	4	mg/k
Nitrobenzene	ND	2.5	4		mg/kg	Hexachloroben	The parties of the second	ND	0.50	1	mg/k
sophorone	ND	0.50	1		-	Pentachlorophe		ND	2.5	1	mg/k
	ND	0.50			mg/kg	Phenanthrene	31101	ND	0.40	4	mg/k
2-Nitrophenol		0.50	1		mg/kg	Anthracene		ND	0.40	1	
2,4-Dimethylphenol	ND	2.5	4		mg/kg		nlata	ND	0.50	4	mg/k
Benzoic Acid	ND		4		mg/kg	Di-n-Butyl Phth	alate		0.40		mg/k
Bis(2-Chioroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND			mg/k
2,4-Dichlorophenol	ND	0.50	- 1		mg/kg	Benzidine		ND	10		mg/k
1,2,4-Trichlorobenzene	ND	0.50			mg/kg	Pyrene		ND	0.40		mg/k
Naphthalene	ND	0.40	1		mg/kg	Pyridine	en aras	ND	0.50	1	mg/k
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl P		ND	0.50	1	mg/k
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1	mg/k
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1	mg/k
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex	yl) Phthalate	ND	0.50	1	mg/k
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	7.00	ND	0.40	1	mg/k
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth		ND	0.50	1	mg/k
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1	mg/l
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo	783 H1755 St.	ND	0.40	1	mg/l
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1	mg/l
Dimethyl Phthalate	ND	0,50	1		mg/kg	Indeno (1,2,3-d	and the second s	ND	0.40	1	mg/l
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A		ND	0.40	1	mg/l
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1	mg/l
Acenaphthene	ND	0.40	1		mg/kg						
Surrogates:	REC (%)	Control Limits		Qua	!	Surrogates:		REC (%)	Control Limits		Qual
2-Fluorophenol	79	31-142	1 -			Phenol-d6		83	30-136		
litrobenzene-d5	84	28-139				2-Fluorobipher	nyt .	82	33-144		
2,4,6-Tribromophenol	69	24-152				p-Terphenyl-d		82	23-160		

RL - Reporting Limit ,

DF - Dilution Factor ,

Calscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/24/02 02-01-1011 EPA 3545

Method:

EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number			AS 71	Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Batch ID
SB-26-7			02-	01-101	1-34	01/24/02	Solid	01/25/02	01/26/02	020	101253
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Q	ual Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropher	lol	ND	2.5	1	mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1	mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	7	mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chloropheny		ND	0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/kg
3is(2-Chlorolsopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2,5	-1	mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1	mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	1	mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachioroben		ND	0.50	1	mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1	mg/kg
2-Nitrophenol	ND	0.50	- 1		mg/kg	Phenanthrene		ND	0.40	1	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1	mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1	mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl P	hthalate	ND	0.50	1	mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1	mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex		ND	0.50	1	mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	10 1 1111111111	ND	0.40	1	rng/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Pht	alate	ND	0.50	1	mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	4	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1	mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A	ALL STATE OF THE S	ND	0.40	1	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1	mg/kg
Acenaphthene	ND	0.40	1		mg/kg	THE PERSON NAMED IN			9119		
Surrogates:	REC (%)	Control Limits		Qua		Surrogates:		REC (%)	Control Limits	<u>Q</u>	tual
2-Fluorophenol	79	31-142				Phenol-d6		82	30-136		
litrobenzene-d5	81	28-139				2-Fluorobipher	nvt.	80	33-144		
2,4,6-Tribromophenol	66	24-152				p-Terphenyl-d		79	23-160		

RL - Reporting Limit .

DF - Dilution Factor ,

Calscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/24/02 02-01-1011 EPA 3545 EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number				ample nber	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Ba	itch ID
SB-25-0.5	20000		02-0	1-1011-37	01/24/02	Solid	01/25/02	01/25/02	0201	11253
Parameter	Result	RL	DF !	Qual Units	Parameter		Result	RL	DF Qua	<u>Units</u>
N-Nitrosodimethylamine	ND	0.50	1	mg/kg	2,4-Dinitropher	not	ND	2.5	1	mg/kg
Aniline	ND	0.50	1	mg/kg	4-Nitrophenol		ND	0.50	1	mg/kg
Phenol	ND	0.50	1	mg/kg	Dibenzofuran		NO	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1	mg/kg	2,4-Dinitrotolue	ine	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1	mg/kg	2,6-Dinitrotolue		ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1	mg/kg	Diethyl Phthala		ND	0.50	1	mg/kg
1,4-Dichlorobenzene	ND	0.50	1	mg/kg	4-Chloropheny			0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1	mg/kg	Fluorene	er meny Lane.	ND	0.40	1	mg/kg
1,2-Dichlorobenzene	ND	0.50	1	mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1	mg/kg	Azobenzene		ND	0.50	1	mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1	mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	4	mg/kg
3/4-Methylphenol	ND	0.50	1	mg/kg	N-Nitrosodiphe		ND	0.50	1	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1	mg/kg	2,4,6-Trichloro		ND	0.50	1	mg/kg
Hexachloroethane	ND	0.50	1	mg/kg	4-Bromopheny			0.50	4	mg/kg
Nitrobenzene	ND	2.5	1	mg/kg	Hexachlorober	The state of the s	ND	0.50	1	mg/kg
sophorone	ND	0.50	1	mg/kg	Pentachloroph	and a control of	ND	2.5	4	mg/kg
2-Nitrophenol	ND	0.50	1	mg/kg	Phenanthrene	elloi	ND	0.40	1	mg/kg
2,4-Dimethylphanol	ND	0.50	1	mg/kg	Anthracene		ND	0.40	4	mg/kg
Benzoic Acid	ND	2.5	1	mg/kg	Di-n-Butyl Phth	salata	ND	0.50	4	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1	mg/kg	Fluoranthene	idiate	ND	0.40	4	mg/kg
2,4-Dichlorophenol	ND	0.50	1	mg/kg	Benzidine		ND	10	4	mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1	mg/kg	Pyrene		ND	0.40		mg/kg
Naphthalene	ND	0.40	1	mg/kg	Pyridine		ND	0.50	4	mg/kg
4-Chloroaniline	ND	0.50	1	mg/kg	Butyl Benzyl P	htholata	ND	0.50		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1	mg/kg	3,3'-Dichlorobe		ND	0.50	4	mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1	mg/kg	Benzo (a) Anth		ND	0.40	4	mg/kg
2-Methylnaphthalene	ND	0.40	1	mg/kg	Bis(2-Ethylhex		ND	0.50		mg/kg
1-Methylnaphthalene	ND	0.40	1	mg/kg	Chrysene	yi) Phinalate	ND	0.40		
Hexachlorocyclopentadiene	ND	1.5	1		Di-n-Octyl Phti	alata	ND	0.50	1	mg/kg
2,4,5-Trichlorophenol	ND	0.50	1	mg/kg	Benzo (k) Fluo		ND	0.40	4	mg/kg
2-Chloronaphthalene	ND	0.50	1	mg/kg			ND		4	mg/kg
2-Nitroaniline	ND	0.50	-	mg/kg	Benzo (b) Fluo		ND	0.40	- 1	mg/kg
	ND		1	mg/kg	Benzo (a) Pyre			4.5		mg/kg
Dimethyl Phthalate	1000	0.50	1	mg/kg	Indeno (1,2,3-	A CONTRACTOR OF THE PERSON OF	ND ND	0.40	4	mg/kg
Acenaphthylene	ND		4	mg/kg	Dibenz (a,h) A	OCCUPATION OF			1	mg/kg
3-Nitroaniline	ND	0.50	1	mg/kg	Benzo (g,h,i) F	erylene	ND	0.40	1	mg/kg
Acenaphthene	ND	0.40	1	mg/kg				age to the second		
Surrogates:	REC (%)	<u>Control</u> <u>Limits</u>		Qual	Surrogates:		REC (%)	<u>Control</u> <u>Limits</u>	Qu	al
2-Fluorophenol	79	31-142	8		Phenol-d6		84	30-136		
Vitrobenzene-d5	84	28-139	6		2-Fluorobipher	ryl	84	33-144		
2,4,6-Tribromophenol	70	24-152			p-Terphenyl-d	14	84	23-160		

RL - Reporting Limit ,

DF - Dilution Factor ,

Lalscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/24/02 02-01-1011 EPA 3545

Method:

EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	C	C Bato	ch ID
SB-25-7	- Grapour		02-	01-101	1-38	01/24/02	Solid	01/25/02	01/26/02	(20101	254
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DE	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	7	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	пе	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	2019191 -000	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Sis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	4		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	4		mg/kg
Vitrobenzene	ND	2.5	4		mg/kg	Hexachloroben	Mary Comments of the Comments	ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophi		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1			Phenanthrene	SILOI	ND	0.40	1		
Z - 1417 2419. D-15. Life #10	2.4				mg/kg	Anthracene			(40.00			mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg		alata.	ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	4		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	- 1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	- 1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	Correction .	ND	0.50	7		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pl		ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	3		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex	yl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	02.00	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth		ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo	TO THE PERSON NAMED IN	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c	The second secon	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A		ND	0.40	1		mg/kg
3-Nitroanlline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg							
Surrogates:	REC (%)	Control Limits		Qua	1	Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	69	31-142				Phenol-d6		72	30-136			
Vitrobenzene-d5	72	28-139				2-Fluorobipher	vi	69	33-144			
2,4,6-Tribromophenol	58	24-152				p-Terphenyl-d1		69	23-160			

RI - Reporting Limit

DF - Dilution Factor .

Lalscience nvironmental aboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/24/02 02-01-1011 EPA 3545

Method:

EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	0	C Bato	ch ID
SB-24-0.5			024	31-101	1-01	01/24/02	Solid	01/25/02	01/26/02	(20101	254
Parameter	Result	RL	DE	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0,50	1		mg/kg	2,4-Dinitropher	iol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ine	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ine	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	ite	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chloropheny		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	(C) (C) 9 (C)	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		rng/kg	2,4,6-Trichloro		ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny	And the second of the second of the second		0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorober	zene	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachloroph		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	nalate	NO	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl P	hthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene		ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phti	nalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	7		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/kg
2-Nitroanillne	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A		ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benza (g,h,i) F		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	(31.99	7.00	4 = = 0				
Surrogates;	REC (%)	Control Limits		Qua		Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	80	31-142				Phenol-d6		84	30-136			
Nitrobenzene-d5	84	28-139				2-Fluorobiphe	nul	81	33-144			
2,4,6-Tribromophenol	70	24-152				p-Terphenyl-d		82	23-160			

RL - Reporting Limit ,

DF - Dilution Factor .

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ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation:

01/24/02 02-01-1011 EPA 3545

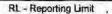
Method:

EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number				Sample Imber	в	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Ba	tch ID
SB-24-7			02-	01-101	1-42	01/24/02	Solid	01/25/02	01/26/02	02010	1254
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qua	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ot	ND	2.5	1	mg/kg
Anlline	ND	0.50	1		mg/kg	4-Nitrophenol	***	ND	0.50	1	mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1	mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl			0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	· many · Lane	ND	0.40	1	mg/kg
,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroanitine		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	3	mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	ethylphenol	ND	2.5	4	mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	4	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1	mg/kg
dexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	1	mg/kg
Vitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1	
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1	mg/kg mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1	mg/kg
2,4-Dimethylphenol	ND	0.50	4		- Carl Carl	Anthracene		ND	0.40	1	mg/kg
Senzoic Acid	ND	2.5	4		mg/kg	Di-n-Butyl Phth	ninin	ND	0.50	1	
	ND	0.50	1		mg/kg	Fluoranthene	alate	ND	0.40	1	mg/kg
Bis(2-Chloroethoxy) Methane 2,4-Dichlorophenol	100000	0.50	1		mg/kg					4	mg/kg
1,2,4-Trichlorobenzene	ND ND	0.50	1		mg/kg	Benzidine		ND ND	0.40		mg/kg
Naphthalene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1	mg/kg
Naphthalene 4-Chloroaniline	ND	1000	1		mg/kg	Pyridine	thatata		0.50	1	mg/kg
		0.50			mg/kg	Butyl Benzyl Pl		ND	200		mg/kg
Hexachloro-1,3-Butadiene	ND	0,50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1	mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)	i) Prinalate	ND	0.50	1	mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene		ND	0.40	1	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth		ND	0.50	1	mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluor		ND	0.40	1	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1	mg/kg
Acenaphthylene	ND	0.40	7		mg/kg	Dibenz (a,h) Ar		ND	0,40	1	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1	mg/kg
Acenaphthene	ND	0.40	1		mg/kg						
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits	Qui	al .
2-Fluorophenol	75	31-142				Phenol-d6		80	30-136		
Vitrobenzene-d5	78	28-139				2-Fluorobiphen	yt	78	33-144		
2,4,6-Tribromophenol	68	24-152				p-Terphenyl-d1		79	23-160		



DF - Dilution Factor ,

Calscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/24/02 02-01-1011 EPA 3545 EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number				Sample mber	•	Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Bato	th ID
Mothod Blank		146	099	04-01	0-1,177	NIA	Solid	01/25/02	01/25/02	02	20101	253
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF .	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2.4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chiorophanol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
.3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalat		ND	0.50	1		mg/kg
,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	a symptomical	ND	0.40	1		mg/kg
,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyi) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	ethylphenol	ND	2.5	1		mg/kg
5/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodipher		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop	200 200 200 200	ND	0.50	1		mg/kg
dexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	1		mg/kg
Vitrobenzene	ND	2.5	1		mg/kg	Hexachloroben	St. Co. L. C. Co. Co. Co. Co. Co. Co. Co. Co. Co.	ND	0.50	Ŷ		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	didio	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	4		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Vaphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
I-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Ph	thelate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthi		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexy		ND	0.50			mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	i) Fillialate	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alato	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluor		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	i		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar	The state of the s	ND	0.40	1		mg/kg
3-Nitroaniline	4 V		1		C			ND	0.40	1		100
Acenaphthene	ND ND	0.50	1		mg/kg mg/kg	Benzo (g,h,i) P	al Jicilia	110	W.40	1		mg/kg
Surrogates:	REC (%)	Control		Qual	A. C. C. C.	Surrogates:		REC (%)	Control		Qual	
2 Florence and	***	Limits				Dh		400	Limits			
2-Fluorophenol	100	31-142				Phenol-d6		106	30-136			
litrobenzene-d5	100	28-139				2-Fluorobiphen		94	33-144			
2,4,6-Tribromophenol	92	24-152				p-Terphenyl-d1	4	97	23-160			

RL - Reporting Limit

DF - Dilution Factor ,

Lalscience nvironmental aboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/24/02 02-01-1011 EPA 3545

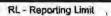
Method:

EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	C	C Bato	h ID
Method Blank	man egi		099	-04-01	0-1,178	N/A	Solid	01/25/02	-01/26/02		20101	254
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	lol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ine	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ne	ND	0.50	1		mg/kg
,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	,	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
3is(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1		mg/k
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny		ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/k
sophorane	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	SHOL	NO	0.40	1		mg/k
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/k
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alala	ND	0.50	1		mg/k
Bis(2-Chloroethoxy) Methane	ND	0.50	- 1		mg/kg	Fluoranthene	diate	ND	0.40	1		mg/k
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/k
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	4		mg/k
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	-		mg/k
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl P	hibalata	ND	0.50	1		
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	4		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1			Benzo (a) Anth		ND	0.40	4		
		0.50	1		mg/kg			ND	0.50			mg/k
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex	yı) Pilinalale	ND	0.40	4		mg/k
1-Methylnaphthalene	ND				mg/kg	Chrysene	- alata		-	4		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth		ND	0.50			mg/kg
2,4,5-Trichlorophenol	ND	0.50			mg/kg	Benzo (k) Fluo		ND	0.40	1		mg/k
2-Chloronaphthalene 2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	3		mg/k
	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/k
Oimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/k
Acenaphthylene	ND	0,40	1		mg/kg	Dibenz (a,h) A		ND	0.40	2		mg/k
3-Nitroaniline	ND	0,50	1		mg/kg	Benzo (g.h,i) P	erylene	ND	0.40	1		mg/k
Acenaphthene	ND	0.40	1		mg/kg	Var. 3 72 8					12.00	
Surrogates;	REC (%)	Control Limits		Qua	1	Surrogates:		REC (%)	<u>Control</u> <u>Limits</u>		Qual	
2-Fluorophenol	96	31-142				Phenol-d6		101	30-136	7		
litrobenzene-d5	100	28-139				2-Fluorobipher	ıyl	96	33-144			
2,4,6-Tribromophenol	84	24-152				p-Terphenyl-d1	14	99	23-160			



DF - Dilution Factor ,

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

Method:

02-01-1011 EPA 3520B EPA 8270C

01/24/02

Project: 47127/LAUSD EAST VALLEY M.S.

Page 1 of 2

Client Sample Number				Sample mber	9	Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Batcl	n ID
EQUIP BLANK 1-24			02-0	11-101	1-45	01/24/02	Aqueous	01/25/02	01/25/02	02)1252	
Parameter	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF C	Qual	Units
N-Nitrosodimethylamine	ND	10	1		ug/L	2,4-Dinitropher	not	ND	50	1		ug/L
Aniline	ND	10	1		ug/L	4-Nitrophenol	161	ND	10	1		ug/L
Phenol	ND	10	1		ug/L	Dibenzofuran		ND	10	1		ug/L
Bis(2-Chloroethyl) Ether	ND	25	4		ug/L	2,4-Dinitrotolus	ne	ND	10	1		ug/L
2-Chlorophenol	ND	10	1		ug/L	2,6-Dinitrotolue		ND	10	1		ug/L
1,3-Dichlorobenzene	ND	10	1		ug/L	Diethyl Phthala		ND	10	1		ug/l
1,4-Dichlorobenzene	ND	10	1		ug/L	4-Chloropheny		ND	10	1		ug/l
Benzyl Alcohol	ND	10	1		ug/L	Fluorene	i i many i miner	ND	10	1		ug/L
1,2-Dichlorobenzene	ND	10	1		ug/L	4-Nitroaniline		ND	10	1		ug/l
2-Methylphenol	ND	10	1		ug/L	Azobenzene		ND	10	1		ug/l
Bis(2-Chloroisopropyl) Ether	ND	10	1		ug/L	4,6-Dinitro-2-N	ethylphenol	ND	50	1		ug/l
3/4-Methylphenol	ND	10	1		ug/L	N-Nitrosodiphe		ND	10	1		ug/l
N-Nitroso-di-n-propylamine	ND	10	1		ug/L	4-Bromopheny			10	1		ug/l
lexachloroethane	ND	10	1		ug/L	Hexachlorober		ND	10	1		ug/l
Nitrobenzene	ND	25	1		ug/L	Pentachloroph	Control of the Contro	ND	10	1		ug/l
sophorone	ND	10	1		ug/L	Phenanthrene		ND	10	1		ug/l
2-Nitrophenol	ND	10	1		ug/L	Anthracene		ND	10	1		ug/l
2,4-Dimethylphenol	ND	10	1		ug/L	Di-n-Butyl Phth	nalate	ND	10	1		ug/l
Benzoic Acid	ND	50	1		ug/L	Fluoranthene		ND	10	1		ug/l
Bis(2-Chloroethoxy) Methane	ND	10	1		ug/L	Benzidine		ND	50	1		ug/
2,4-Dichlorophenol	ND	10	1		ug/L	Pyridine		ND	10	1		ug/l
1,2,4-Trichlorobenzene	ND	10	1		ug/L	Pyrene		ND	10	1		ug/I
Naphthalene	ND	10	1		ug/L	Butyl Benzyl P	hthalate	ND	10	1		ug/
4-Chloroaniline	ND	10	1		ug/L	3,3'-Dichlorobe		ND	25	1		ug/l
Hexachloro-1,3-Butadiene	ND	10	1		ug/L	Benzo (a) Anti		ND	10	1		ug/l
4-Chloro-3-Methylphenol	ND	10	1		ug/L	Bis(2-Ethylhex		ND	10	1		ug/I
2-Methylnaphthalene	ND	10	1		ug/L	Chrysene		ND	10	1		ug/
Hexachlorocyclopentadiene	ND	25	1		ug/L	Di-n-Octyl Pht	nalate	ND	10	1		ug/l
2,4,6-Trichlorophenol	ND	10	1		ug/L	Benzo (k) Fluo		ND	10	1		ug/l
2,4,5-Trichlorophenol	ND	10	1		ug/L	Benzo (b) Fluo		ND	10	1		ug/
2-Chloronaphthalene	ND	10	1		ug/L	Benzo (a) Pyre		ND	10	1		ug/
2-Nitroaniline	ND	10	1		ug/L	Benzo (g,h,i) F		ND	10	1		ug/
Dimethyl Phthalate	ND	10	1		ug/L	Indena (1,2,3-	The second secon	ND	10	1		ug/
Acenaphthylene	ND	10	1		ug/L	Dibenz (a,h) A		ND	10	1		ug/l
3-Nitroaniline	ND	10	1		ug/L	1-Methylnapht		ND	10	1		ug/
Acenaphthene	ND	10	1		ug/L	341/3/00/00/00		100				
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits	. 9	Qual	
2-Fluorophenol	68	15-138				Phenol-d6		48	17-141			
litrobenzene-d5	98	56-123				2-Fluorobipher	lve	94	45-120			
2,4,6-Tribromophenol	83	32-143				p-Terphenyl-d		95	46-133			

RL - Reporting Limit

DF - Dilution Factor ,

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

02-01-1011 EPA 3520B

01/24/02

Method:

EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

Page 2 of 2

Client Sample Number				Sample mber	9	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bat	ch ID
Method Blank			095	01-00	3-914	N/A	Aqueous	01/25/02	01/25/02	02012	52
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qual	Units
N-Nitrosodimethylamine	ND	10	1		ug/L	2,4-Dinitrophe	nol	ND	50	1	ug/L
Aniline	ND	10	1		ug/L	4-Nitrophenol		ND	10	1	ug/L
Phenol	ND	10	1		ug/L	Dibenzofuran		ND	10	1	ug/L
Bis(2-Chloroethyl) Ether	ND	25	1		ug/L	2,4-Dinitrotolu	ene	ND	10	1	ug/L
2-Chlorophenol	ND	10	1		ug/L	2,6-Dinitrotolu		ND	10	1	ug/L
1,3-Dichlorobenzene	ND	10	1		ug/L	Diethyl Phthala		ND	10	1	ug/L
1,4-Dichlorobenzene	ND	10	1		ug/L	4-Chloropheny	N. Sella I. Store N. C. T.	ND	10	1	ug/L
Benzyl Alcohol	ND	10	1		ug/L	Fluorene		ND	10	1	ug/L
1,2-Dichlorobenzene	ND	10	1		ug/L	4-Nitroaniline		ND	10	1	ug/L
2-Methylphenol	ND	10	1		ug/L	Azobenzene		ND	10	1	ug/L
Bis(2-Chloroisopropyl) Ether	ND	10	1		ug/L	4,6-Dinitro-2-N	Methylphenol	ND	50	1	ug/L
3/4-Methylphenol	ND	10	1		ug/L	N-Nitrosodiphe		ND	10	4	ug/L
N-Nitroso-di-n-propylamine	ND	10	1		ug/L	4-Bromopheny			10	1	ug/L
Hexachloroethane	ND	10	4		ug/L	Hexachlorober	A STATE OF THE PARTY OF THE PAR	ND	10	4	ug/L
Nitrobenzene	ND	25	1		ug/L	Pentachloroph		ND	10	1	ug/L
sophorone	ND	10	1		ug/L	Phenanthrene		ND	10	1	ug/L
2-Nitrophenol	ND	10	1		ug/L	Anthracene		ND	10	1	ug/L
2,4-Dimethylphanol	ND	10	1		ug/L	Di-n-Butyl Pht	halate	ND	10	1	ug/L
Benzoic Acid	ND	50	1		ug/L	Fluoranthene	, alaka	ND	10	1	ug/L
Bis(2-Chloroethoxy) Methane	ND	10	1		ug/L	Benzidine		ND	50	1	ug/L
2,4-Dichlorophenol	ND	10	1		ug/L	Pyridine		ND	10		ug/L
1,2,4-Trichlorobenzene	ND	10	1		ug/L	Pyrene		ND.	10		ug/L
Naphthalene	ND	10	1		ug/L	Butyl Benzyl F	hthalata	ND	10	4	ug/L
4-Chloroaniline	ND	10	4		ug/L	3,3'-Dichlorobe		ND	25	1	ug/L
Hexachloro-1,3-Butadiene	ND	10	1		ug/L	Benzo (a) Anti		ND	10	1	ug/L
4-Chloro-3-Methylphenol	ND	10	1		ug/L	Bis(2-Ethylhe)		ND	10	1	ug/L
2-Methylnaphthalene	ND	10	1		ug/L	Chrysene	cyl) Filmalate	ND	10	1	ug/L
Hexachlorocyclopentadiene	ND	25	1		ug/L	Di-n-Octyl Pht	halata	ND	10	1	ug/L
	ND	10	1		ug/L	Benzo (k) Fluc		ND	10	1	ug/L
2,4,6-Trichlorophenol 2,4,5-Trichlorophenol	ND	10	1		ug/L	Benzo (b) Fluc		ND	10	1	ug/L
		10	4					ND		1	
2-Chloronaphthalene 2-Nitroaniline	ND ND	10	1		ug/L	Benzo (a) Pyr		ND	10	1	ug/L
	ND	10	4		ug/L	Benzo (g,h,i) i	the state of the s	ND	10	*	ug/L
Dimethyl Phthalate	ND	10	1		ug/L	Indeno (1,2,3-	The state of the s		10	1	ug/L
Acenaphthylene	214				ug/L	Dibenz (a,h) A		ND	4.4		ug/L
3-Nitroaniline	ND	10	1		ug/L	1-Methylnaphi	rialelle	ND	10	1	ug/L
Acanaphthene	ND			200	ug/L	Elmin June				2.0	
Surrogates:	REC (%)	<u>Control</u> <u>Limits</u>		Qual		Surrogates:		REC (%)	<u>Control</u> <u>Limits</u>	Qua	
2-Fluorophenol	65	15-138				Phenol-d6		47	17-141		
Vitrobenzene-d5	91	56-123				2-Fluorobiphe		88	45-120		
2,4,6-Tribromophenol	80	32-143				p-Terphenyl-d	14	92	46-133		

RL - Reporting Limit

DF - Dilution Factor ,



Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

01/24/02

Work Order No:

02-01-1011

Preparation:

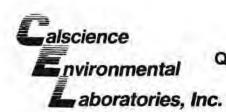
Total Digestion

Method:

EPA 6010B

Project: 47127/LAUSD EAST VALLEY M.S.

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
SB-12-7	Solid	ICP 3300	01/24/02		01/25/02	012402ms10
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	84	81	50-115	4	0-20	
Arsenic	92	91	75-125	1	0-20	
Barium	101	100	75-125	0	0-20	
Beryllium	95	94	75-125	1	0-20	
Cadmium	96	96	75-125	1	0-20	
Chromium (Total)	97	96	75-125	2	0-20	
Cobalt	100	100	75-12 5	+	0-20	
Copper	99	99	75-125	0	0-20	
Lead	95	94	75-125	1	0-20	
Molybdenum	95	94	75-125	2	0-20	
Nickel	98	98	75-125	0	0-20	
Selenium	93	92	75-125	1	0-20	
Silver	95	95	75-125	0	0-20	
Thallium	92	92	75-125	1	0-20	
Vanadium	95	93	75-125	2	0-20	
Zinc	106	106	75-125	0	0-20	



Quality Control - Laboratory Control Sample

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

Work Order No: Preparation:

Method:

01/24/02 02-01-1011

Total Digestion EPA 6010B

Project:

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File	ID	LCS Batch Number
097-01-002-3,071	Solld	ICP 3300	01/25/02	020124	4	020124)610
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Antimony		50.0	50.3	101	80-120	
Arsenic		50.0	44.7	89	80-120	
Barium		50.0	53.9	108	80-120	
Beryllium		50.0	50.2	100	80-120	
Cadmium		50,0	52.4	105	80-120	
Chromium (Total)		50.0	51.1	102	80-120	
Cobalt		50.0	54.8	110	80-120	
Copper		50.0	50.7	101	80-120	
Lead		50.0	50.1	100	80-120	
Molybdenum		50.0	50.0	100	80-120	
Nickel		50.0	53.1	106	80-120	
Selenium		50.0	48.4	97	80-120	
Silver		25.0	25.7	103	80-120	
Thallium		50.0	51.8	104	80-120	
Vanadium		50.0	49.6	99	80-120	
Zinc		50.0	51.9	104	80-120	



Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/24/02

Work Order No:

02-01-1011

Preparation:

Total Digestion

Method:

EPA 6010B

Project:

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
02-01-0988-26	Solid	ICP 3300	01/24/02		01/25/02	012402ms9
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	75	69	50-115	в	0-20	
Arsenic	85	87	75-125	8	0-20	
Barium	94	107	75-125	В	0-20	
Beryllium	87	89	75-125	2	0-20	
Cadmium	88	90	75-125	2	0-20	
Chromium (Total)	91	95	75-125	2	0-20	
Cobalt	93	95	75-125		0-20	
Copper	81	86	75-125	3	0-20	
Lead	87	85	75-125	2	0-20	
Molybdenum	87	88	75-125	2 2 3	0-20	
Nickel	90	92	75-125	3	0-20	
Selenium	85	88	75-125	3	0-20	
Silver	51	47	75-125		0-20	3
Thallium	87	89	75-125	9	0-20	
Vanadium	91	96	75-125	5	0-20	
Zinc	87	86	75-125	0	0-20	



Quality Control - Laboratory Control Sample

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

Work Order No: Preparation:

Method:

01/24/02 02-01-1011

Total Digestion EPA 6010B

Project:

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-3,072	Solid	1CP 3300	01/25/02	020124-1	020124ics9
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL Qualif
Antimony		50.0	50.7	101	80-120
Arsenic		50.0	44,5	89	80-120
Barium		50.0	53.6	107	80-120
Beryllium		50.0	49.8	100	80-120
Cadmium		50,0	52.0	104	80-120
Chromium (Total)		50.0	50.8	102	80-120
Cobalt		50.0	54.6	109	80-120
Copper		50.0	50,6	101	80-120
Lead		50.0	50.2	100	80-120
Molybdenum		50.0	50.1	100	80-120
Nickel		50.0	52.9	106	80-120
Selenium		50.0	48.9	98	80-120
Silver		25.0	25.6	102	80-120
Thallium		50.0	51.8	104	80-120
Vanadium		50.0	49.5	99	80-120
Zinc		50.0	51.5	103	80-120



Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

01/24/02

Work Order No:

02-01-1011

Preparation:

Total Digestion

Method:

EPA 7471A

Project:

Quality Control Sample ID	Matrix	Instrument	Date Prepared	A	Date nalyzed	MS/MSD Batch Number
02-01-0975-7	Solid	Mercury	01/24/02	0	1/24/02	012402ms4
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	116	114	76-136	1	0-16	



Quality Control - Laboratory Control Sample

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

Work Order No: Preparation:

Method:

01/24/02

02-01-1011 Total Digestion

EPA 7471A

Project:

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File I	D I	LCS Batch Number
099-04-007-1,290	Solid	Mercury	01/24/02	020124-L		0201241cs4
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Mercury		0.835	0.839	100	82-124	



Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240

Long Beach, CA 90802-4432

Date Received:

01/24/02

Work Order No:

Preparation:

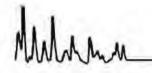
02-01-1011 **Total Digestion**

Method:

EPA 7471A

Project:

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date alyzed	MS/MSD Batch Number
SB-12-7	Solid	Mercury	01/24/02	01	1/25/02	012402ms6
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	102	101	76-136	1	0-16	





Quality Control - Laboratory Control Sample

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/24/02 02-01-1011 Total Digestion EPA 7471A

Project:

Quality Control Sample ID Matrix		Instrument	Date Analyzed	Lab File ID	LCS	Batch Number
099-04-007-1,291	Solid	Mercury	01/25/02	0201241	02	20124lcs6
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Mercury		0.835	0.918	110	82-124	





QUALITY ASSURANCE SUMMARY

Method EPA 8081A (Solids)

Earth Tech	Work Order No.:	02-01-1011
Page 1 of 1	Date Analyzed:	01/24/02

Surrogate Recoveries (in %)

Sample Number	<u>S1</u>	<u>S2</u>
MS 020109654	62	61
MSD 020109654	60	64
LCS 0201243	68	75

Surrogate Compound
S1 > Decachlorobiphenyl
S2 > 2,4,5,8-Tetrachloro-m-Xylene
Solid %REC
Acceptable Limits
50 - 130
50 - 130





Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

Work Order No:

Preparation:

Method:

01/24/02

02-01-1011

EPA 3545

EPA 8081A

Project: 47127/LAUSD EAST VALLEY M.S.

Matrix	Instrument	Date Prepared	11 6		MS/MSD Batch Number	
Solid	GC 16	04/24/02	01/24/02		020109854	
MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers	
90	89	50-135	1	0-25		
90	86	50-135	4	0-25		
80	81	50-135	2	0-25		
110	106	50-135	1	0-25		
93	88	50-135	5	0-25		
104	96	50-135	8	0-25		
	90 90 80 110 93	Solid GC 16 MS %REC MSD %REC 90 89 90 86 80 81 110 106 93 88	Matrix Instrument Prepared Solid GC 16 04/24/02 MS %REC MSD %REC %REC CL 90 89 50-135 90 86 50-135 80 81 50-135 110 106 50-135 93 88 50-135	Matrix Instrument Prepared Solid GC 16 01/24/02 MS %REC MSD %REC %REC CL RPD 90 89 50-135 1 90 86 50-135 4 80 81 50-135 2 110 106 50-135 1 93 88 50-135 5	Matrix Instrument Prepared Analyzed Solid GC 16 04/24/02 01/24/02 MS %REC MSD %REC %REC CL RPD RPD CL 90 89 50-135 1 0-25 90 86 50-135 4 0-25 80 81 50-135 2 0-25 110 106 50-135 1 0-25 93 88 50-135 5 0-25	



Quality Control - Laboratory Control Sample

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method:

01/24/02 02-01-1011 EPA 3545 EPA 8081A

Project: 47127/LAUSD EAST VALLEY M.S.

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File II	o Lo	S Batch Number	
099-07-011-17	Solid	GC 16	01/24/02	010F0101		0201243	
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers	
Gamma-BHC		25	22	87	50-135		
Heptachlor		25	21	83	50-135		
Endosulfan I		25	20	80	50-135		
Dieldrin		25	20	82	50-135		
Endrin		25	23	91	50-135		
4,4'-DDT		25	21	84	50-135		



QUALITY ASSURANCE SUMMARY

Method EPA 8082 (Solids)

 Earth Tech
 Work Order No.:
 02-01-1011

 Page 1 of 1
 Date Analyzed:
 01/25/02

Surrogate Recoveries (in %)

 Sample Number
 S1
 S2

 LCS 0201271
 82
 76

 LCSD 0201271
 83
 78

Surrogate Compound

S1 > Decachlorobiphenyl S2 > 2,4,5,6-Tetrachloro-m-Xylene Solid %REC Acceptable Limits

> 50 - 130 50 - 130



Quality Control - LCS/LCS Duplicate

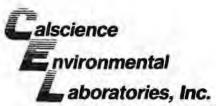
Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/24/02 02-01-1011 EPA 3545

EPA 8082

Project:

Quality Control Sample ID	Matrix	Instrume	Da ent Prep		Da Analy		LCS/LCSD Bat Number	ch
099-07-009-25	Solid	GC 10	10 01/27/02 01/28/02		V02	0201271		
Parameter	LCS	%REC L	CSD %REC	%RE	C CL	RPD	RPD CL	Qualifiers
Aroclor-1260	78		78	50	-135	0	0-25	





QUALITY ASSURANCE SUMMARY

Method EPA 8270C (Solids)

Earth Tech Page 1 of 1			Order No.: Analyzed:	02-01-1011 01/26/02		
Surrogate Recoveries	(in %)					
Sample Number	<u>S1</u>	<u>S2</u>	<u>S3</u>	<u>S4</u>	<u>S5</u>	<u>\$6</u>
MS 0201101125	84	87	86	83	75	82
MSD 0201101125	80	83	82	79	68	75
LCS 020101253	100	103	99	97	94	96
MS 0201101141	72	75	73	71	60	73
MSD 0201101141	74	83	85	80	65	79
LCS 020101254	98	101	101	97	90	98

Surrogate Compound	Solid %REC Acceptable Limits
S1 > 2-Fluorophenol	31 - 142
S2 > Phenol-d ₆	30 - 136
S3 > Nitrobenzene-d ₅	28 - 139
S4 > 2-Fluorobiphenyl	33 - 144
S5 > 2,4,6-Tribromophenol	24 - 152
S6 > p-Terphenyl-d14	23 - 160



Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/24/02

Work Order No:

02-01-1011

Preparation:

EPA 3545

Method:

EPA 8270C

Project:

47127/LAUSD EAST VALLEY M.S.

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
8B-2-5	Solid	GC/MS P	01/25/02		01/26/02	0201101125
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	88	85	53-118	3	0-19	
2-Chlorophenol	85	83	60-119	3	0-18	
1,4-Dichlorobenzene	81	82	56-131	1	0-18	
N-Nitroso-di-n-propylamine	88	86	64-123	2	0-18	
1,2,4-Trichlorobenzene	77	75	52-144	2	0-17	
4-Chloro-3-Methylphenol	84	80	45-135	4	0-20	
Acenaphthene	89	87	45-152	2	0-18	
4-Nitrophenol	85	85	45-135	1	0-20	
2,4-Dinitrotoluene	90	89	42-128	2	0-23	
Pentachlorophenol	84	80	45-135	5	0-20	
Durane	97	94	45 135	6	0.20	



Quality Control - Laboratory Control Sample

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/24/02 02-01-1011 EPA 3545 EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-04-010-1,177	Solid	GC/MS P	01/25/02	25JAN004	020101253
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL Qualifiers
Phenol		10	9.7	97	67-118
2-Chlorophenol		10	9,6	96	72-119
1,4-Dichlorobenzene		10	9.4	94	69-118
N-Nitroso-di-n-propylamine		10	9.8	98	70-112
1,2,4-Trichlorobenzene		10	8.5	85	65-135
4-Chloro-3-Methylphenol		10	9.4	94	45-135
Acenaphthene		10	9.9	99	61-142
4-Nitrophenol		10	9.9	99	45-135
2,4-Dinitrotoluene		10	10	104	47-137
Pentachlorophenol		10	10	101	45-135
Pyrene		10	9.2	92	45-135



Quality Control - Spike/Spike Duplicate

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/24/02 02-01-1011

EPA 3545 EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
SB-24-0.5	Solid	GC/MS P	01/25/02		91/26/02	0201101141
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	74	85	53-118	13	0-19	
2-Chlorophenol	73	82	60-119	12	0-18	
1,4-Dichlorobenzene	72	80	56-131	10	0-18	
N-Nitroso-di-n-propylamine	77	87	64-123	12	0-18	
1,2,4-Trichlorobenzene	65	71	52-144	10	0-17	
4-Chloro-3-Methylphenol	70	78	45-135	11	0-20	
Acenaphthene	78	88	45-152	13	0-18	
4-Nitrophenol	72	85	45-135	16	0-20	
2,4-Dinitrotoluene	78	89	42-128	13	0-23	
Pentachlorophenol	69	78	45-135	13	0-20	
Pyrene	75	84	45-135	11	0-20	



Quality Control - Laboratory Control Sample

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/24/02 02-01-1011 EPA 3545 EPA 8270C

Project: 47127/LAUSD EAST VALLEY M.S.

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-04-010-1,178	Solid	GC/MS P	01/26/02	25.JAN032	020101254
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL Qualifiers
Phenol		10	9.6	96	67-118
2-Chlorophenol		10	9.4	94	72-119
1,4-Dichlorobenzene		10	9.3	93	69-118
N-Nitroso-di-n-propylamine		10	9.8	98	70-112
1,2,4-Trichlorobenzene		10	8.5	85	65-135
4-Chloro-3-Methylphenal		10	9.5	95	45-135
Acenaphthene		10	9.9	99	61-142
4-Nitrophenol		10	9.9	99	45-135
2,4-Dinitrotoluene		10	10	103	47-137
Pentachlorophenol		10	9.3	93	45-135
Pyrene		10	9,6	96	45-135



QUALITY ASSURANCE SUMMARY

Method EPA 8270C (Aqueous)

Earth Tech Page 1 of 1		*		Order No.: Analyzed:	02-01-1011 01/25/02				
Surrogate Recoveries	(in %)								
Sample Number	<u>S1</u>	<u>S2</u>	<u>S3</u>	<u>\$4</u>	<u>S5</u>	<u>\$6</u>			
LCS 0201252 LCSD 0201252	74 84	59 64	97 104	94 100	84 94	96 100			

Surrogate Compound	Aqueous %REC Acceptable Limits
S1 > 2-Fluorophenol	15 - 138
S2 > Phenol-d ₆	17 - 141
S3 > Nitrobenzene-d ₅	56 - 123
S4 > 2-Fluorobiphenyl	45 - 120
S5 > 2,4,6-Tribromophenol	32 - 143
S6 > p-Terphenyl-d14	46 - 133



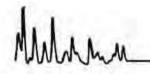
Quality Control - LCS/LCS Duplicate

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/24/02 02-01-1011 EPA 3510B EPA 8270C

Project:

47127/LAUSD EAST VALLEY M.S.

Quality Control Sample ID	Matrix	Instrument	Date Prepare	100	ate yzed	LCS/LCSD Bat Number	ich
095-01-003-914	Aqueous	GC/MS P	01/25/0	2 91/2	5/02	0201252	
Parameter	LCS %RE	C LCSD	%REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	61	67		12-151	10	0-23	
2-Chlorophenol	90	102		45-135	13	0-18	
1,4-Dichlorobenzene	89	98		36-118	9	0-26	
N-Nitroso-di-n-propylamine	99	108		52-128	9	0-13	
1,2,4-Trichlorobenzene	85	92		42-120	7	0-21	
4-Chloro-3-Methylphenot	97	104		20-150	6	0-40	
Acenaphthene	105	112		51-137	6	0-11	
4-Nitrophenol	64	73		20-150	12	0-40	
2,4-Dinitrotoluene	107	114		25-143	6	0-36	
Pentachlorophenol	97	111		20-150	14	0-40	
Pyrene	102	106		45-135	4	0-20	



Lalscience GLOSSARY OF TERMS AND QUALIFIERS Invironmental

aboratories, Inc.

Work Order Number: 02-01-1011

Qualifier	Definition
3	Spike or Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
J	Analyte was detected at a concentration below the reporting limit.
ND	Reported value is estimated. Not detected at indicated reporting limit.

February 11, 2002

Ms. Mary Carol Valenzuela Calscience 7440 Lincoln Way Garden Grove, CA 92841

Re: 02-01-1011 PTS File: 32034

Dear Ms. Valenzuela:

Enclosed is final data for from your Project # 02-01-1011. All analyses were performed by applicable ASTM, EPA or API methodology. Samples will be retained for 30 days before disposal unless other arrangements are made.

We appreciate the opportunity to be of service and trust these data will prove beneficial in the development of this project. Please feel free to call myself or Larry Kunkel, District Manager, should you have any questions or require additional information.

Sincerely,

PTS Laboratories, Inc.

Rick Young

Laboratory Director

RY/vk

encl.

25,0 PSI CONFINING STRESS

PHYSICAL PROPERTIES DATA

(METHODOLOGY: ASTM D2216, API RP40, ASTM D5084, EPA 9060B)

PROJECT NAME: N/A PROJECT NO: 02-01-1011

		LEAMBLE	MOISTURE	DEA	ISITY	DOBOSITY	9/1/5/21	T DC	ORE FLUID	TOTAL	NATIVE STATE EFFECTIVE	EFFECTIVE
SAMPLE	DEPTH.	ORIENT.	CONTENT		GRAIN	POROSITY,	AIR	The second second	TIONS, % Pv (3)	CARBON	PERMEABILITY	HYDRAULIC
ID.	DEPIN,	(1)	(% wt)	(g/cc)	(g/cc)	EFFECTIVE	FILLED		HYDROCARBON	mg/kg	TO WATER (5) (millidarcy)	CONDUCTIVITY (5 (cm/s)
iD.	- "	1 10	(70 111)	(9/00)	1 (8-00)	LITEOME	11444	Trouter	TI DITOCIAL DOIL	liging	(miniodicy)	(onus)
SB-12-Physical	N/A	V	5.3	1.50	2.68	43.9	35.6	18.9	ND<0.1	7300	336	3.15E-04
- 20 7 HVD 18 20 20 2	2000		12.79,81		2.44.2	1,400	11100					A 18 18 28 28 28 28 28 28 28 28 28 28 28 28 28
SB-16-Physical	N/A	V	6.0	1.49	2.69	44.6	35.3	21.0	ND<0.1	1400	32.6	3.04E-05
	7714								***************************************			774.5
SB-9-Physical	N/A	V	7.1	1.38	2.69	48.7	38.3	21.3	ND<0.1	1800	28.2	2.66E-05

⁽¹⁾ Sample Orientation: H = horizontal; V = vertical (2) Effective Porosity = no pore fluids in place; all interconnected pore channels; Air Filled = pore channels not occupied by pore fluids (3) Water = 0.9981 g/cc; Hydrocarbon = 0.7500 g/cc (4) Native State = As received with pore fluids in place (5) Permeability to water and conductivity measured at saturated conditions Vb = Bulk Volume, cc; Pv = Pore Volume, cc; ND = Not Detected

Environm. J Laboratories, Inc.

7440 LINCOLN WAY

32034

GARDEN GROVE, CA 92841-1432

TEL: (714) 895-5494 . FAX: (714) 894-7501

TC TS 8. Jecura Way Santa Fe Springs, CA 90670

CHAIN	OF ÇL	ISTODY	PECORD	
DATE:	1/2	19/05	PECORD	
PAGE.	1	OF	1	

	LABORATORY CLIENT: CALSCIENCE ENVIRONMENTAL LABS, INC.										7 NUME	ier:		P.O. NO.:							
ADDRES								2-01					-					QUOTE NO.:			
CITY:	incoln Way		_	-			1000				enzi	iela						QUOTE NO.			
10000	n Grove, CA 92841						Marycarol Valenzuela SAMPLER(S): (SIGNATURE)										LAB USE OF	Q Y			
TEL:	714-895-5494	714-894-7	501	E-MAIL																	
200	OUND TIME AME DAY 24 HR	☐ 48HR ☐ 72 H	R 🗆 5 DA	ys [10 DA	YS		REQUESTED ANAL							VAL	YSIS					
SPECIAL	REQUIREMENTS (ADDITIONAL CO	OSTS MAY APPLY)	=									-74			-6		1	1			
ПR	WQCB REPORTING [ARCHIVE SAMPL	ES UNTIL	1	1							D5084)		46	Nat						
Norr	nal TAT Laboratory Cose call with any questi	ontact: Rick Young					Bulk Density	Grain Density	Effective Porosity	Air Filled Porosity	Effective Permeability to water (ASTM D5084)	Effective Hydraulic Conductivity (ASTM DS	EPA 9060B- TOC	ASTM D2216 - Moisture Content	Pore Fluid Saturation - Water	Pore Fluid Saturation - Hydrocarbon					
LAB USE	SAMPLE ID	LOCATION/	SAMPL	ING	MAT-	NO. OF CONT.	를 급	ain	Fect	E	fect	fection of the	8 A	TT atro	19	Pore F Hydro	1				
ONLY	54000000	DESCRIPTION	DATE	TIME	RIX		ā	Ö	m m	₹	E N	E S	ᇳ	S S	ď	요主		CONT	AINER TYPE		
	SB-12-Physical		1/24/2002		S	1	X	X	X	X	X	X	X	Х	X	X					
	SB-16-Physical		1/24/2002		S	1	X	X	X	X	X	X	X	Х	X	X					
	SB-9-Physical		1/24/2002		S	1	х	X	X	X	X	X	X	X	X	X	-				
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										Ē	3			E							
																	119				
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Relinqu	Receilinquished by: (Signature)						by; (Signature)						Date: Time:								



February 26, 2002 PM09302

Steve Williams
Earth Tech
100 West Broadway, Suite 240
Long Beach, CA 90802-4432

Subject:

Calscience Work Order No.:

Client Reference:

02-01-1088

LAUSD East Valley M.S. /47127

Dear Mr. Williams:

Calscience Environmental Laboratories, Inc. (Calscience) is pleased to submit herewith the subject analytical report. The narrative presented below summarizes our analytical effort and clarifies any quality control anomalies which appear in the report.

Sample Condition on Receipt

Forty-nine soil samples and one water sample were received as part of this Work Order on January 25, 2002. All samples were transferred to the laboratory in ice-chests following strict chain-of-custody procedures. The temperature of the ice-chests were measured upon arrival in the laboratory and were within acceptable limit (4°C) and (4°C). The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary

Data is presented on a wet weight basis.

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks

The method blank data showed non-detectable levels for all constituents, with the exception of trace levels of arsenic and zinc for batches 020125lcs9 and 020125lc10.

Matrix Spikes

Matrix spikes (MS) and matrix spike duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits.

Laboratory Control Samples

The Laboratory Control Sample (LCS) analysis was performed at the required frequency. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for all samples were within acceptable control limits.

If there are any questions regarding this report, please contact the undersigned at (714) 895-5494.

Sincerely,

Calscience Environme Laboratories, Inc.

Marycarol Valenzuela

Project Manager

Michael J Crisostomo Quality Assurance Manager



A **type** INTERNATIONAL LTD. COMPANY

105 3

									_						C	ustody	Seal #			E	arth Te	ch Coc	ler#	()	
	ect Number	Project Name/	Client LA	USD								Anal	ysis R	equir	ed				Matrix						
4	1127	Signature) LAC.	mey ,	u.s.					(Hd	0	3 3	t.F	met)			1 1				Samp	le Type		San	nple C	Container
Samp	ole Custodian: (Signature) LACL	rever.	Bra	~~				Crp	(SUOC)	-	のま	~			\mathbb{I}		П					36.66	W	
Item No.	D (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Description (D Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	2005	3270	76.95	1803	0109						Soll			V	See		
1	38-8-5		1/25/02	0340	X		0		×	×			×						10				K		
2	58-8-5 D	المال		0840					X	舞									1						
383	58-8-10		() E	0345					×	X			x		1)										
4	58-8-10 D	UP		DBAS					Se	煮						1/6									
5	5B-8-15			OBST					X	×			x												
6	58-22 - 0.	5		1017				4		X			X									10		U.	
7	58.22-7			1023						×			x									74. A			
8	56-22-10			1028					He	LI	2													1	
9	58-21-0.5			1035						X	×	K	X												
10	58-4-2			1104					X	×			X									50			
11	58-4-5			1109				L Table	X	×	100		X									Life (
12	58-4-10			1117					x	×			X												
13	58-4-15			1125					X	×			X		1										
14	58-30-1			1146								X													
15	58-30-3		1 2 -	1147							II.	X													
	58-30-3 00	P		1147								X										1			
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lon	u. BROK	CA 9000Z	40		11	-	TALS	46 11	w -	TAT	-		□ s	ample	s deliv	ered in p	erson	Cm	stody Se	eal Intac	:1?				
601	UG BEACH	CA 90002	•	Fe	ederal	Expre	TALS ss Airbill No	0.12	-	**!				ommo	on carr	ier					Containe	er:			
fax (562)951-2086 Lab:														Sample Condition:											
1-7	110			13/	hito C	onv.	Lab	-	Vello			Cile		-	Die	le Com	Client				_		_	_	



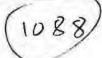
Chain of stody Record

A THED INTERNATIONAL LTD. COMPANY

									,						Custody Se	al#			Earth	Tech C	Cooler	#	
	ect Number	Project Name										Anal	ysis	Requ	ired					Ma	atrix		
4	7127	Signature) LAW	VALLEY	M.	5.				3	20	3	(7.2	5					Sa	mple T	ype	Sa	mple (Container
Sam	ple Custodian: (S	Signature) LAW	Levie	BA	العراد	00			(Tru)	(Surc	Cou	100	(smer)								SEME		
Item No.		Description (D Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	3008	200	200	1308	6010	Hd				S.			35		
Ì	58-1-3		1/25/02	1216	X		0			EÜ	×	×						X			X		
2	56-1-3 DU	ρ		1210	1		1				X												
3	58-23-0.5			inn						X			×		BINE								
4	56-23-7			1237						X			×										
5	58-23-10			124					4.	DL.	2	97											
6	58-23-12			1255					4	DL	0												
7	58-5-5			1315			200	1	×	X			×										
8	58-5-10			1320					X	x			×										150
9	58-5-15			1332					X	X			X										
10	58-22-2		7 1	1354									X	X							Ш		
11	58-20-7			1422	-								x	X									
12	58-27-2			1426	V					X													
13	58-27-5			1429			1	PE S		X								11					
14	58-27-10		L	1438	X		0			X			1			1		C			X	3/6	
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16												V.T.		9		100						-	
17												T _A											
18	1	. 1																					
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100	w. BROAD	way SE 2	10				DALS 1		FAT					Samn	les delivered in perso	on.	Custo	dy Seal	Intact?				
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A THEO INTERNATIONAL LTD. COMPANY



Chain of stody Record 3 0+3

															Custod	y Seal #			I	Earth '	Tech C	ooler	#	
	ct Number	Project Name							1		-	alysis	Requ	iired							Ma	trix		
4	17127	EAST VA	uey 1	h.s					(S)	=	3						IL	- 4	Samp	ple Ty	/pe	S	ample	e Container
Samp	ole Custodian: (S	Signature) Lau	PEACE	BE	aut	JE			(50005)	(TPH)	(METALS								26			cue	SAR	
Item No.		Description D Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	9270	2106	0109							2016	WATE			55 52.6	AMBER	
1	EQUIP BLA	WK 1/25	1/25/02	1230	×				X										×				×	
2	58-32-5		1	0629			0		X	×	X							×	91			×		
3	58-32-5 D	UP		0629	J.		1		x		X			Edi				1				1		
4	58-32-10			0634		90			X	K	×			100				H						
5	58-32-10	OUP		0674		13			X		X							T		3 1				
6	5B-32-15			0645					×	K	X							I				8 10		
7	58-32-15 1	our		0645					X	g	X							Π		2				
8	58-33-5			6704					×	×	入							11						
9	58-37-10			6709			115		×	X	X			7:1				II						
10	58-33.15			6723					X	X	×							\prod						
11	58.7-5			5742					X	×	X			14.										
12	58-7-5 DUP			0742					X	*	×													
13	58-7-10			0750					×	X	X							П		340				
	58-7-10 DU	P		0750					X		X		1					П						
-	58-7.15			0820					X	X	X					T. 4.5		\prod		42				
16	58-7-15	DUP		one	1				X		X			271						Caj P				
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18	58-6-9			0819	×		0		K	X	X							×				×		
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Send L	ab Results To: 575	VEWILLIAM	5	Rema	rks:	24	UR 1/	IT O	フ			Chec	k Del	ivery M	lethod:		Labora	atory	Recei	ving No	otes:			
		MY STE 24								.01	CAN		Sami	oles deli	ivered in	person	Custo	dy Se	al Inta	act?				
	6 BEACH			Fe	deral	Expre	S 49 ss Airbill N	0.: /	NOP	MAL	TAT		Com	mon ca	rrier			_		ng Cont	ainer:			
				1	ıb:												Samp	le Cor	dition	n:				
fa	x (522)951	-2026		11/1	***	2.55	Lah		37.10	- 0	nny - F					v - Client	Samp	le Cor	dition	at				

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC. Sample Summary Report

WORK ORDER #:

02-01-1088

QAPP:

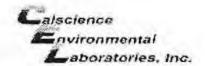
0117

	Client Sample ID	Matrix	Date Collected	NoC	Comment
1	SB-8-5	S	01/25/2002	1	
2	SB-8-5 DUP	S	01/25/2002	1	
3	SB-8-10	S	01/25/2002	1	
4	SB-8-10 DUP	S	01/25/2002	1	
5	SB-8-15	S	01/25/2002	1	
3	SB-22-0.5	S	01/25/2002	1	
7	SB-22-7	S	01/25/2002	1	
3	SB-22-10	S	01/25/2002	1	
	SB-21-0.5	S	01/25/2002	1	
0	SB-4-2	S	01/25/2002	1	
1	SB-4-5	S	01/25/2002	1	
2	SB-4-10	S	01/25/2002	1	
3	SB-4-15	S	01/25/2002	1	
4	SB-30-1	S	01/25/2002	1	
5	SB-30-3	S	01/25/2002	1	
6	SB-30-3 DUP	S	01/25/2002	1	
7	SB-30-5	S	01/25/2002	1	
3	SB-1-1	S	01/25/2002	1	
9	SB-1-3	S	01/25/2002	1	
)	SB-1-3 DUP	S	01/25/2002	1	
	SB-23-0.5	S	01/25/2002	1	
2	SB-23-7	S	01/25/2002	1	
3	SB-23-10	S	01/25/2002	1	
4	SB-23-12	S	01/25/2002	1	
5	SB-5-5	S	01/25/2002	1	
3	SB-5-10	S	01/25/2002	11	
7	SB-5-15	S	01/25/2002	1	
3	SB-28-2	S	01/25/2002	1	
9	SB-28-7	S	01/25/2002	1	
)	SB-27-2	S	01/25/2002	1	
1	SB-27-5	S	01/25/2002	1	
2	SB-27-10	S	01/25/2002	1.	
3	EQUP BLANK 1/25	W	01/25/2002	1	
4	SB-32-5	S	01/25/2002	1	

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC. Sample Summary Report

WORK ORDER #: 02-01-1088 QAPP: 0117

5	Client Sample ID SB-32-5 DUP	Matrix S	Date Collected 01/25/2002	NoC 1	Comment
6	SB-32-10	S	01/25/2002	1	
7	SB-32-10 DUP	S	01/25/2002	1	
8	SB-32-15	S	01/25/2002	1	
9	SB-32-15 DUP	S	01/25/2002	1	
0	SB-33-5	S	01/25/2002	1	
1	SB-33-10	S	01/25/2002	1	
2	SB-33-15	S	01/25/2002	1	
3	SB-7-5	S	01/25/2002	1	
4	SB-7-5 DUP	S	01/25/2002	1	
5	SB-7-10	S	01/25/2002	1	
6	SB-7-10 DUP	S	01/25/2002	1	
7	SB-7-15	S	01/25/2002	1	
8	SB-7-15 DUP	S	01/25/2002	1	
9	SB-6-5	S	01/25/2002	1	
50	SB-6-9	S	01/25/2002	1	
	1				

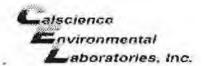


WORK ORDER #:	02-	0	-	0	8	8

Cooler ___ of ___

SAMPLE RECEIPT FORM

TEMPERATUR	E - SAMPLES RECEIVED BY:	
Chilled, of Chilled a Ambient	OURIER: cooler with temperature blank provided. cooler without temperature blank, and placed in cooler with wet ice. and placed in cooler with wet ice. temperature.	LABORATORY (Other than Calscience Courier): °C Temperature blank. °C IR thermometer. Ambient temperature.
CUSTODY SEA	AL INTACT:	
Sample(s):	Cooler: No (Not Inta	ct): Not Applicable (N/A):
Sample container Sample container(Correct containers Proper preservation VOA vial(s) free of	document(s) received with samples	
COMMENTS:		



WORK ORDER #: 02-0 1 - 1 0 8 8

Cooler 2 of 2

SAMPLE RECEIPT FORM

TEMPERATUR	RE - SAMPLES RECEIVED BY:		
Chilled, of Chilled and Ambient	course: cooler with temperature blank provided. cooler without temperature blank. and placed in cooler with wet ice. and placed in cooler with wet ice. temperature.	LABORATORY (Other than Calso C Temperature blank. C IR thermometer. Ambient temperature.	cience Courier):
°C Temp	perature blank.	Initial	12
CUSTODY SE	AL INTACT:		
Sample(s):	Cooler: No (Not In	ntact) : Not Applicable (N/A): Initial	60
SAMPLE CON	DITION:	Yes No	N/A
Chain-Of-Custody	document(s) received with samples		2.0.5.5
Sample container	label(s) consistent with custody papers		***
		<u></u>	
	NO. 1 CONTROL OF THE REAL PROPERTY OF THE PROP	Initia	14.00
COMMENTS:			



ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

N/A

Method:

EPA 9045C

Project: LAUSD-East Valley M.S. / 47127

Page 1 of 1

				Matrix	Date Collected	Date Prepared	Date Analyzed	QC Batch ID
	02-01	1086-28		Solid	01/25/02	01/25/02	01/25/02	0125PHDUP3
Result	RL	DF	Qual	Units				
4.12	0.01	1		pH unit				
	02-01	4088-29	ANTERNA DE LA CONTRACTION DEL CONTRACTION DE LA	Solid	01/25/02	01/25/02	01/25/02	0125PHDUP3
Result	RL	DF	Qual	Units				
5.84	0.01	1		pH unit				
	4.12	N 02-01. Result RL 4.12 0.01 02-01. Result RL	4.12 0.01 1 02-01-1068-29 Result RL DE	Number 02-01-1688-28 Result RL DF Qual 4.12 0.01 1 02-01-1068-29 Result RL DF Qual	Number Matrix	Number Matrix Collected 02-01-1088-28 Solid 01/25/02 Result RL DF Qual Units 4.12 0.01 1 pH unit 02-01-1068-29 Solid 01/25/02 Result RL DF Qual Units	Number Matrix Collected Prepared 02-01-1098-28 Solid 01/25/02 01/25/02 Result RL DF Qual Units 4.12 0.01 1 pH unit 02-01-1088-29 Solid 01/25/02 01/25/02 Result RL DF Qual Units	Number Matrix Collected Prepared Analyzed 02-01-1688-28 Solid 01/25/02 01/25/02 01/25/02 Result RL DF Qual Units 4.12 0.01 1 pH unit 02-01-1068-29 Solid 01/25/02 01/25/02 01/25/02 Result RL DF Qual Units

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

01/25/02

Work Order No:

02-01-1088 **Total Digestion**

Preparation:

Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

Page 1 of 13

Client Sample Nu	mber			Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
58-8-5			02-	01-108	18-1	01/25/02	Solid	01/25/02	01/28/02	0	20125	lcs9
Comment(s):	Mercury was analyz	ed on 1/28/02	10:40:	59 AM	with bato	h 020125lcs6						
Parameter	Resu	ilt RL	DF	Qual	Units	<u>Parameter</u>		Result	RL	DF	Qual	<u>Units</u>
Antimony	0.36	0.750	1	J	mg/kg	Mercury		0.0643	0.0835	1	J	mg/kg
Arsenic	0.60		1	J	mg/kg	Molybdenum		0.167	0.250	1	J	mg/kg
Barium	49.8	0.5	1		mg/kg	Nickel		4.45	0.25	1		mg/kg
Beryllium	0.14	15 0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.20	0.500	1		mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	5.68	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	4.0	0.25	1		mg/kg	Vanadium		13.5	0.2	1		mg/kg
Copper	7.60	CALL OF THE PARTY	1		mg/kg	Zinc		21.2	1.0	1		mg/kg
Lead	2.00	0.50	1		mg/kg			77.65		- 2		
SB-8-10			02	01-108	88-3	01/25/02	Solid	01/25/02	01/28/02	(20125	lcs9
mment(s):	Mercury was analyz	ed on 1/28/02	10:43:	58 AM	with bate	ch 020125lcs6	***************************************					
arameter	Resu	ilt RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	0.:	234 0.750	1	1	mg/kg	Mercury		0.0490	0.0835	1	1	mg/kg
Arsenic	1.	75 0.75	1		mg/kg	Molybdenum		0.110	0.250	1	J	mg/kg
Barium	143	0.500	1		mg/kg	Nickel		14.3	0.2	1		mg/kg
Beryllium	0.4	583 0.250	1		mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.	528 0.500	1		mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	20.	1 0.2	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	11.	1 0.2	1		mg/kg	Vanadium		38.0	0.2	1		mg/kg
Copper	21,	0.5	1		mg/kg	Zinc		47.8	1.0	1		mg/kg
Lead	5,	38 0.50	1		mg/kg				***			
SB-8-15			02	01-10	38-5	01/25/02	Solid	01/25/02	01/28/02		120125	lcs9
Comment(s):	Mercury was analyz			00 AM	with bate	ch 020125lcs6						
<u>Parameter</u>	Resi	ult RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	0.3	98 0.750	1	3	mg/kg	Mercury		0.0401	0.0835	1	J	mg/kg
Arsenic	0.6	95 0.750	1	3	mg/kg	Molybdenum		0.131	0.250	1	J	mg/kg
Barium	83.2	0.5	1		mg/kg	Nickel		7.84	0.25	1		mg/kg
Beryllium	0.2	47 0.250	1	1	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.3	40 0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	10.7	0.2	1		mg/kg	Thallium		NO	0.750	1		mg/kg
Cobalt	7.4	2 0.25	1		mg/kg	Vanadium		21.9	0.2	1		mg/kg
Copper	9.1	8 0.50	1		mg/kg	Zinc		35.2	1.0	1		mg/kg
Lead	2.2				mg/kg			200				200

RL - Reporting Limit ,

DF - Dilution Factor

Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 . TEL: (714) 895-5494 . FAX: (714) 894-7501

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

Total Digestion

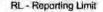
Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

Page 2 of 13

Client Sample Nu	mber			Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	c	C Bate	ch ID
\$8-22-0.5			02-	01-108	8-6	01/25/02	Solid	01/25/02	01/28/02	(20125	lcs9
Comment(s):	Mercury was analyzed	on 1/28/02 1	0:50:0	00 AM	with batc	h 020125lcs6			***************************************			
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	0.383	0.750	1	J	mg/kg	Mercury		0.0456	0.0835	1	J	mg/kg
Arsenic	0.728	0.750	1	J	mg/kg	Molybdenum		0.169	0.250	1	J	mg/kg
Barium	49.3	0.5	1		mg/kg	Nickel		4.55	0.25	1		mg/kg
Beryllium	0.144	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.209	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	5.87	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	4.40	0.25	1		mg/kg	Vanadium		13.5	0.2	1		mg/kg
Copper	5.59	0.50	1		mg/kg	Zinc		29.1	1.0	1		mg/kg
Lead	3.15	0.50	1		mg/kg				777			
SB-22-7			02-	01-108	8-7	01/25/02	Solid	01/25/02	01/28/02	(20125	ilos9
omment(s):	Mercury was analyzed	on 1/28/02	0:53:0	01 AM	with bato	th 020125lcs6		***************************************				
-arameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0416	0.0835	1	J	mg/kg
Arsenic	0.711	0.750	1	J	mg/kg	Molybdenum		0.0209	0.250	1	1	mg/kg
Barium	73.9	0.5	1		mg/kg	Nickel		6.11	0.25	1		mg/kg
Beryllium	0,211	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.342	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	8.62	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	6.39	0.25	1		mg/kg	Vanadium		21.1	0.2	1		mg/kg
Copper	7.94	0.50	1		mg/kg	Zinc		35.7	1.0	1		mg/kg
Lead	7.20	0.50	1		mg/kg							
SB-21-0,5	-		02-	01-108	16-9	01/25/02	Solid	01/25/02	01/28/02	,	020125	iks9
Comment(s):	Mercury was analyzed					ch 020125lcs6						
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0130	0.0835	1		mg/kg
Arsenic	0.454	0.750	1	7	mg/kg	Molybdenum		0.0457	0,250	1	J	mg/kg
Barium	91.5	0.5	1		mg/kg	Nickel		8.40	0.25	1		mg/kg
Beryllium	0.284	0.250	1		mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.506		1		mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	11.8	0.2	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	8,02	0.25	1		mg/kg	Vanadium		26.8	0.2	1		mg/kg
Copper	10.9	0.5	1		mg/kg	Zinc		50.1	1.0	1		mg/kg
Lead	8.45	0.50	1		mg/kg							-



DF - Dilution Factor

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

Total Digestion

Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Nu	mber			Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bate	ch ID
SB-4-2			02-	01-108	3-10	01/25/02	Solid	01/25/02	01/28/02	0	20125	lcs9
Comment(s):	Mercury was analyz	ed on 1/28/02	10:59:	06 AM	with bato	h 020125lcs6						
Parameter	Resu	It RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	<u>Units</u>
Antimony	0.4	33 0.750	1	3	mg/kg	Mercury		0.0159	0.0835	1	J	mg/kg
Arsenia	0.4	52 0.750	1	J	mg/kg	Molybdenum		0.0439	0.250	1	J	mg/kg
Barium	102	0.500	1		mg/kg	Nickel		8.45	0.25	1		mg/kg
Beryllium	0.2	80 0.250	1		mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.4	62 0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Totel)	11.3	200	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	8.7	8 0.25	1		mg/kg	Vanadium		26.4	0.2	1		mg/kg
Copper	10.7		1		mg/kg	Zinc		45.6	1.0	1		mg/kg
Lead	3.0		1		mg/kg							
98-4-5	- 95		02-	01-106	8-11	01/25/02	Solid	01/25/02	01/28/02	0	20125	les9
mment(s):	Mercury was analyz				with bate	ch 020125lcs6						
rarameter	Resu	It RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	<u>Units</u>
Antimony	NO	0.750	1		mg/kg	Mercury		0.0152	0.0835	1	J	mg/kg
Arsenic	0.94	3 0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
3arium	45.1	0.5	1		mg/kg	Nickel		3.43	0.25	1		mg/kg
Beryllium	0.13	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.23	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)			1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	4.33	0.25	1		mg/kg	Vanadium		18.1	0.2	1		mg/kg
Copper	5.13	0.50	1		mg/kg	Zinc		23.3	1.0	1		mg/kg
Lead	1.40		1		mg/kg			10010	100			
SB-4-10			02-	-01-106	8-12	01/25/02	Solid	01/25/02	01/28/02	0	20125	itcsB
Comment(s):	Mercury was analyz		11:05:			ch 020125lcs6						
Parameter	Resu	it RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0179	0.0835	1	1	mg/kg
Arsenic	0.30	0.750	1	J	mg/kg	Molybdenum		0.230	0.250	1	1	mg/kg
Barium	43.2	0.5	1		mg/kg	Nickel		5.87	0.25	1		mg/kg
Beryllium	0.14	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.22				mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	8.25	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	4.99	1,5 1,4-1,30	1		mg/kg	Vanadium		17.6	0.2	1		mg/kg
Copper	4.98		1		mg/kg	Zinc		20.0	1.0	1		mg/kg
Lead	1.2		1		mg/kg	C-00/10		- T - T - T				



ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

Total Digestion

Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

Page 4 of 13

Client Sample Nu	mber			Sampl imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
SB-4-15			02-	01-108	8-13	01/25/02	Solid	01/25/02	91/28/02	0	20125	lcs9
Comment(s):	Mercury was analyzed or	1/28/02 1	1:08:	15 AM	with bato	h 020125lcs6						
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	<u>Units</u>
Antimony	ND	0.750	1		mg/kg	Mercury		ND	0.0835	1		mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		0,280	0.250	1		mg/kg
Barium	43.6	0.5	1		mg/kg	Nickel		3.04	0.25	1		mg/kg
Beryllium	0.106	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.181	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	5.25	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	2.90	0.25	1		mg/kg	Vanadium		9.62	0.25	1		mg/kg
Copper	4.06	0.50	1		mg/kg	Zinc		19.6	1.0	1		mg/kg
Lead	0.998	0.500	1		mg/kg							
SB-23-0.5	200		92-	01-108	8-21	01/25/02	Solid	01/25/02	01/28/02	Ö	20125	ics9
umment(s):	Mercury was analyzed or	1/28/02 1	1:18:	00 AM	with bate	h 020125lcs6						
rarameter	Result	RL	DE	Qual	Units	Parameter		Result	RL	DE	Qual	<u>Units</u>
Antimony	0.207	0.750	1	J	mg/kg	Mercury		0.0493	0.0835	1	J	mg/kg
Arsenic	0.797	0.750	1		mg/kg	Molybdenum		0.0716	0.250	1	1	mg/kg
Barium	69.8	0.5	1		mg/kg	Nickel		6.37	0.25	1		mg/kg
Beryllium	0.185	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.409	0,500	1	J	mo/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	9.40	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	5.86	0.25	1		mg/kg	Vanadium		19.7	0.2	1		mg/kg
Copper	9.14	0.50	1		mg/kg	Zinc		43.4	1.0	1		mg/kg
Lead	17.0	0.5	1		mg/kg							
SB-23-7			02-	01-108	98-22	01/25/02	Solid	01/25/0Z	01/28/02	O	20125	1039
Comment(s):	Mercury was analyzed or							207.10		75		100
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	<u>Oual</u>	Units
Antimony	0.370	0.750	1	J	mg/kg	Mercury		0.0227	0.0835	1	J	mg/kg
Arsenia	0.476	0.750	1	J	mg/kg	Molybdenum		0.0409	0.250	1	J	mg/kg
Barium	65.6	0.5	1		mg/kg	Nickel		5.68	0.25	1		mg/kg
Beryllium	0.201	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.332	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	7.98	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	5.95	0.25	1		mg/kg	Vanadium		20.4	0.2	1		mg/kg
Copper	7.59	0.50	1		mg/kg	Zinc		29.8	1.0	1		mg/kg
Lead	3.34	0.50	1		mg/kg			Table 1				

RL - Reporting Limit ,

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

01/25/02

Work Order No:

02-01-1088

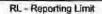
Preparation: Method:

Total Digestion EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Nu	mber			Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bate	ch ID
SB-5-5		666	02-	01-108	8-25	01/25/02	Solid	01/25/02	01/28/02	0	20125	ics9
Comment(s):	Mercury was analyzed on	1/28/02 1	1:24:	IO AM	with batc	h 020125lcs6				-		
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	0.344	0.750	1	J	mg/kg	Mercury		0.0192	0.0835	1	J	mg/kg
Arsenic	0.802	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium	97.2	0.5	1		mg/kg	Nickel		8.41	0.25	1		mg/kg
Berylllum	0.291	0,250	1		mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.450	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)		0.2	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	7.94	0.25	1		mg/kg	Vanadium		26.9	0.2	1		mg/kg
Copper	10.7	0.5	1		mg/kg	Zinc		39.2	1.0	1		mg/kg
Lead	3.09	0.50	1		mg/kg	2110		U.J.Z	1.0			mgrid
SB-5-10			02-	01-108	18-26	01/25/02	Solid	01/25/02	01/28/02	0	20125	ics9
mment(s):	Mercury was analyzed on	1/28/02 1	1:27:	16 AM	with bate	h 020125lcs6						
arameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0639	0.0835	1	J	mg/kg
Arsenic	0.444	0.750	1	J	mg/kg	Molybdenum		0.104	0.250	1	1	mg/kg
Barlum	52,0	0.5	1		mg/kg	Nickel		4.05	0.25	1		mg/kg
Beryllium	0,119	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.172	0.500	1	1	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	5.93	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	3.71	0.25	1		mg/kg	Vanadium		11.2	0.2	1		mg/kg
Copper	4.19	0.50	1		mg/kg	Zinc		18.8	1.0	1		mg/kg
Lead	1.18	0.50	1		mg/kg			15.7				
SB-5-15			02-	01-108	18-27	01/25/02	Solid	01/25/02	01/26/02	C	20125	ics9
Comment(s):	Mercury was analyzed on	1/28/02	1:30:	22 AM	with bate	ch 020125lcs7						
Parameter	Result	RL	DE	Qual	Units	Parameter		Result	RL	DE	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0517	0.0835	1	J	mg/kg
Arsenic	0.417	0.750	1	J	mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium	62.0	0.5	1		mg/kg	Nickel		4.43	0.25	1		mg/k
Beryllium	0.164	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.270	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)		0.25	1		mg/kg	Thallium		ND	0.750	1		mg/k
Cobalt	5.25	0.25	1		mg/kg	Variadium		16.6	0.2	1		mg/k
Copper	5.70	0.50	1		mg/kg	Zinc		26.4	1.0	1		mg/k
Lead	1.40	0.50	1		mg/kg	2.4.7		460		- 0		



ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

01/25/02

Work Order No: Preparation:

02-01-1088

Total Digestion

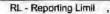
Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Nu	mber			Sampl umber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
SB-28-2			02-	01-108	8-28	01/25/02	Solid	01/25/02	01/28/02	C	20125	lcs9
Comment(s):	Mercury was analyzed	on 1/28/02	11:33:	26 AM	with batc	h 020125lcs6	V-19-		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-		
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	<u>Units</u>
Antimony	0.499	0.750	1	J	mg/kg	Mercury		0.0469	0.0835	1	j	mg/kg
Arsenic	0.372	0.750	1	J	mg/kg	Molybdenum		1.58	0.25	1		mg/kg
Barium	85.6	0.5	1		mg/kg	Nickel		7.13	0.25	1		mg/kg
Beryllium	0.290	0.250	1		mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmlum	0.810	0.500	1		mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	9.55	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	7.43	0.25	1		mg/kg	Vanadium		23.9	0.2	1		mg/kg
Copper	51.4	0.5	1		mg/kg	Zinc		47.9	1.0	1		mg/kg
Lead	8.50	0.50	- 1		mg/kg			1100	***			
SB-28-7		. 16	02-	01-108	18-29	01/25/02	Solid	01/25/02	01/28/02	(20125	lcs9
mment(s):	Mercury was analyzed	on 1/28/02	11:36:	25 AM	with bato	h 020125lcs6	*****					
- arameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
Antimony	0.37	6 0.750	1	J	mg/kg	Mercury		0.0609	0.0835	1	1	mg/kg
Arsenic	0.31	7 0.750	1	J	mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium	114	0.500	1		mg/kg	Nickel		16.1	0.2	1		mg/kg
Beryllium	0.41	4 0.250	1		mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	1.25	0.50	1		mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	14.1	0.2	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	11.0	0.2	1		mg/kg	Vanadium		32.7	0.2	1		mg/kg
Copper	15.5	0.5	1		mg/kg	Zinc		112	1	1		mg/kg
Lead	3.92	0.50	1		mg/kg							
SB-32-5			02	-01-10	38-34	01/25/02	Solid	01/25/02	01/28/02	1	20125	ics9
Comment(s):	Mercury was analyzed		11:39:	25 AM	with bate	th 020125lcs6					G.	
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		ND	0.0835	1		mg/kg
Arsenic	1.00	0.75	1		mg/kg	Molybdenum		0.0954	0.250	1	J	mg/kg
Barium	77.2	0.5	1		mg/kg	Nickel		5.34	0.25	1		mg/kg
Beryllium	0.182	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.285	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	7.38	0.25	1		mg/kg	Thailium		ND	0.750	1		mg/kg
Cobalt	5.44	0.25	1		mg/kg	Vanadium		16.7	0.2	1		mg/kg
Copper	7,33	0.50	1		mg/kg	Zinc		27.6	1.0	1		mg/kg
CANADA PON	2.29	0.50	1		mg/kg			7.67	9.55			



DF - Dilution Factor .

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

Total Digestion

Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Nu	mber				Sample mber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	0	C Bato	h ID
SB-32-5 DUP		_ T		02-4	1-108	8-35	01/25/02	Solid	01/25/02	01/28/02	0	20125	ics9
Comment(s):	Mercury was analy	zed on 1/28	3/02 11	1:42:2	4 AM	with batc	h 020125lcs6						
Parameter	Re	sult R	L	DF	Qual	Units	<u>Parameter</u>		Result	RL.	DF	Qual	<u>Units</u>
Antimony	ND	0.	750	1		mg/kg	Mercury		0.0516	0.0835	1	J	mg/kg
Arsenic			75	1		mg/kg	Molybdenum		0.182	0.250	1	J	mg/kg
Barium	80.		5	1		mg/kg	Nickel		7.34	0.25	1		mg/kg
Beryllium	0.	224 0.	250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.	375 0.	500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)			25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt		0.7	25	1		mg/kg	Vanadium		21.2	0.2	1		mg/kg
Copper			.50	3		mg/kg	Zinc		35.8	1.0	1		mg/kg
Lead			50	1		mg/kg	2.00		00.0	2.0			11.9.1.5
SB-32-40				02-1	01-108	8-36	01/25/02	Solid	01/25/02	01/28/02	(20125	ics9
mment(s):	Mercury was analy	yzed on 1/28	3/02 1	1:45:2	4 AM	with bato	h 020125lcs6						
- arameter	Re	sult R	L	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.	750	1		mg/kg	Mercury		0.0294	0.0835	1	J	mg/kg
Arsenic	ND	0.	750	1		mg/kg	Molybdenum		0.0501	0.250	1	J	mg/kg
Barium	142	2 0.	500	1		mg/kg	Nickel		9.79	0.25	1		mg/kg
Beryllium	(0.455 0.	250	1		mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium		0.649 0.	500	1		mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)			2	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt			2	1		mg/kg	Vanadium		35.5	0.2	1		mg/kg
Copper			.5	1		mg/kg	Zinc		56.0	1.0	1		mg/kg
Lead			.50	1		mg/kg	2010		20.2	1.14			11.9115
SB-32-10 DUP	79.7	10.00		02-	01-108	18-37	01/25/02	Solid	01/25/02	01/28/02	(20125	lcs9
Comment(s):	Mercury was anal		3/02 1			with bato	h 020125lcs6						
Parameter	Re	sult R	L	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	ND		,750	1		mg/kg	Mercury		0.0327	0.0835	1	J	mg/kg
Arsenic	ND	0	.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium	120	0 0	.500	1		mg/kg	Nickel		10.0	0.2	1		mg/kg
Beryllium		0.407 0	.250	1		mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium		0.631 0	.500	- 1		mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	1:	3.8 0	.2	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt		0.6 0	.2	1		mg/kg	Vanadium		33.3	0.2	1		mg/kg
Copper	10	6.2 0	.5	1		mg/kg	Zinc		52.1	1.0	1		mg/kg
CONTRACTOR OF THE PARTY OF THE		1,500		1		mg/kg			17.72.00	100			



DF - Dilution Factor .

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

Total Digestion

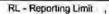
Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Nur	mber			Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	C	C Bato	h ID
88-32-15			02-	01-108	8-38	01/25/02	Solid	01/25/02	01/28/02	(20125	lc10
Comment(s):	Mercury was analyzed on	1/28/02 1	1:57:3	32 AM	with batc	h 020125lcs7						
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		ND	0.0835	1		mg/kg
Arsenic	0.325	0.750	1	J	mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium	61.8	0.5	1		mg/kg	Nickel		3.88	0.25	1		mg/kg
Beryllium	0.156	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.199	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	4.91	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	4.46	0.25	1		mg/kg	Vanadium		12.7	0.2	1		mg/kg
Copper	4.68	0.50	1		mg/kg	Zinc		26,1	1.0	1		mg/kg
Lead	1.30	0.50	1		mg/kg	-116			20.5	- 1		
98-32-15 DUP			02-	01-108	18-39	01/25/02	Solid	01/25/02	01/28/02	-	20125	ic10
/mment(s):	Mercury was analyzed on	1/28/02 1	2:00:	34 PM	with batc	h 020125lcs7						
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	0.338	0.750	1	J	mg/kg	Mercury		ND	0.0835	1		mg/kg
Arsenic	0.804	0,750	1		mg/kg	Molybdenum		0.0465	0.250	1	J	mg/kg
Barium	63.1	0.5	1		mg/kg	Nickel		5.60	0.25	1		mg/kg
Beryllium	0.166	0.250	1	1	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.309	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	8.35	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	5.93	0.25	1		mg/kg	Vanadium		19.1	0.2	1		mg/kg
Copper	6.50	0.50	1		mg/kg	Zinc		28.4	1.0	1		mg/kg
Lead	2.18	0.50	1		mg/kg							
SB-33-5			02-	01-10	18-40	01/25/02	Solid	01/25/02	01/28/02		20125	ic10
	Mercury was analyzed or	1/28/02 1	2:03:	37 PM	with bate	h 020125lcs7						
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0289	0.0835	1	J	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		0.116	0.250	1	J	mg/kg
Barium	134	0.500	1		mg/kg	Nickel		11.9	0.2	1		mg/kg
Beryllium	0.415	0.250	1		mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.941	0.500	1		mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	16.6	0.2	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	11.8	0.2	1		mg/kg	Vanadium		37.6	0.2	1		mg/kg
Copper	17.3	0.5	1		mg/kg	Zinc		55.5	1.0	1		mg/kg
Lead	3.94	0.50	1		mg/kg				0.00			-



ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240

Date Received:

01/25/02

Work Order No:

02-01-1088

Long Beach, CA 90802-4432

Preparation: Method:

Total Digestion EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Nu	mber			Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	0	C Bato	th ID
SB-33-10	11 T W		02-	01-108	8-41	01/25/02	Solid	01/25/02	01/28/02	C	20125	lc10
Comment(s):	Mercury was analyz	ed on 1/28/02	12:06:4	O PM	with bato	h 020125lcs7						
Parameter	Resi	it RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	<u>Units</u>
Antimony	ND	0.750	1		mg/kg	Mercury		ND	0.0835	1		mg/kg
Arsenic	0.4		1	J	mg/kg	Molybdenum		0.0322	0.250	1	J	mg/kg
Barlum	67.8	0.5	1		mg/kg	Nickel		4.84	0.25	1		mg/kg
Beryllium	0.13	31 0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.30	34 0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	6.6	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	5.2	0.25	1		mg/kg	Vanadium		16.2	0.2	1		mg/kg
Copper	5.5	0.50	1		mg/kg	Zinc		23.6	1.0	1		mg/kg
Lead	1.4	2 0.50	1		mg/kg							
SB-33-15			02-	01-108	8-42	01/25/02	Solid	01/25/02	01/28/02	(20125	ic10
mment(s):	Mercury was analyz	ed on 1/28/02	12:09:	13 PM	with bate	h 020125lcs7						
rarameter	Resi	III RL	DF	Qual	<u>Units</u>	<u>Parameter</u>		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0173	0.0835	1	j	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium	59.3	0.5	1		mg/kg	Nickel		4.26	0.25	1		mg/kg
Beryllium	0.1		1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.3	43 0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	6.0	8 0.25	1		mg/kg	Thallium		ND	0,750	1		mg/kg
Cobalt	4.7	3 0.25	1		mg/kg	Vanadium		15.3	0.2	1		mg/kg
Copper	4.9	0.50	1		mg/kg	Zinc		23.2	1.0	1		mg/kg
Lead	1.3	2 0.50	1		mg/kg	- ANN AND TO THE REAL PROPERTY OF THE PERTY		0				
SB-7-5			02-	01-108	18-43	01/25/02	Solid	01/25/02	01/28/02	,	020125	1010
Comment(s):	Mercury was analyz	ed on 1/28/02	12:12:	46 PM	with bate	th 020125lcs7						
Parameter	Res	ult RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0507	0.0835	1	1	mg/kg
Arsenic	0.2	44 0.750	1	J	mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium	92.5	0.5	1		mg/kg	Nickel		6.71	0.25	1		mg/kg
Beryllium	0.1	97 0.250	1	J	mg/kg	Selenium		ND	0,750	1		mg/kg
Cadmium	0.5	08 0,500	1		mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	8.8	1 0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	6.7	3 0.25	1		mg/kg	Vanadium		20.6	0.2	1		mg/kg
Copper	8.5	2 0.50	1		mg/kg	Zinc		35.9	1.0	1		mg/kg
Lead	7.9	1 0.50	1		mg/kg							-

RL - Reporting Limit ,

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

Total Digestion

Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	C	C Bato	ch ID
SB-7-5 DUP			02-	01-108	8-44	01/25/02	Solid	01/25/02	01/28/02	(20125	ic10
Comment(s): Mercui	y was analyzed on	1/28/02 1	2:15:5	50 PM	with bato	h 020125lcs7					7.7	
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0185	0.0835	1	J	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		0.333	0.250	1		mg/kg
Barium	96.9	0.5	1		mg/kg	Nickel		10.6	0.2	1		mg/kg
Beryllium	0.258	0.250	1		mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.652	0.500	1		mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	12.8	0.2	1		mp/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	7.92	0.25	1		mg/kg	Vanadium		27.2	0.2	1		mg/kg
Copper	10,6	0.5	1		mg/kg	Zinc		41.2	1.0	4		mg/kg
Lead	3.90	0.50	1		mg/kg	Zino		71.2	1.0	,		uigrag
SB-7-10	1	116. 11.	02-	01-108	8-45	01/25/02	Solid	01/25/02	01/28/02	- (20125	lc10
omment(s): Mercu	ry was analyzed on	1/28/02 1	2:18:5	55 PM	with bato	h 020125ics7				***************************************		
arameter	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF	Qual	Unils
Antimony	ND	0.750	1		mg/kg	Mercury		0.0319	0.0835	1	J	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		ND	0,250	1		mg/kg
Barium	48.1	0.5	1		mg/kg	Nickel		3.75	0.25	1		mg/kg
Beryllium	0.117	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.405	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	5.57	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	4.75	0.25	1		mg/kg	Vanadium		18.4	0.2	1		mg/kg
Copper	4.87	0.50	1		mg/kg	Zinc		25.1	1.0	1		mg/kg
Lead	4.20	0.50	1		mg/kg			95.7				
SB-7-10 DUP			02-	01-108	8-46	01/25/02	Solid	01/25/02	01/28/02		020125	ileto
Comment(s): Mercu	ry was analyzed or	1/28/02 1				h 020125lcs7	***************************************	***************************************				
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0341	0.0835	1	3	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		0.0343	0.250	1	J	mg/kg
Barium	72.5	0.5	1		mg/kg	Nickel		6.22	0.25	1		mg/kg
Beryllium	0.186	0,250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.479	0.500	1	1	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	8.68	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	6.38	0.25	1		mg/kg	Vanadlum		20.6	0.2	1		mg/kg
Copper	8.05	0.50	1		mg/kg	Zinc		33.5	1.0	1		mg/kg
CONTRACTOR OF THE PROPERTY OF	2.83	0.50	1		mg/kg			443-640	1000			

RL - Reporting Limit

DF - Dilution Factor

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

Total Digestion

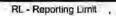
Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Nu	mber			Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	C	C Bato	th ID
SB-7-15			02-	01-108	8-47	01/25/02	Solid	01/25/02	01/28/02	1	20125	lc10
Comment(s):	Mercury was analyzed of	n 1/28/02 1	:20:19	PMW	ith batch	020125lcs7						
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	<u>Units</u>
Antimony	ND	0.750	1		mg/kg	Mercury		0.0237	0.0835	1	J	mg/kg
Arsenic	0.228	0.750	1	J	mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium	58.5	0.5	1		mg/kg	Nickel		3,89	0.25	1		mg/kg
Beryllium	0.110	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.354	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chremium (Total)		0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	4.78	0.25	1		mg/kg	Vanadium		15.7	0.2	1		mg/kg
Copper	4.84	0.50	1		mg/kg	Zinc		22.4	1.0	1		mg/kg
Lead	1.16	0.50	1		mg/kg	200		Sec. 17.		•		38
SB-7-15 DUP		*	02-	01-108	8-48	01/25/02	Solid	01/25/02	01/28/02		20125	lc10
omment(s):	Mercury was analyzed of	on 1/28/02 1	:23:2:	2 PM v	ith batch	020125lcs7	*************					
<u>arameter</u>	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0184	0.0835	1	J	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barlum	54.2	0.5	1		mg/kg	Nickel		3.88	0.25	1		mg/kg
Beryllium	0.0809	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.298	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromlum (Total)	5.33	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	4.52	0.25	1		mg/kg	Vanadium		13.7	0.2	1		mg/kg
Copper	5.32	0.50	1		mg/kg	Zine		18.9	1.0	1		mg/kg
Lead	1.13	0.50	1		mg/kg			15.0	1.00	- 1		
SB-6-5		*	02-	01-106	8-49	01/25/02	Solid	01/25/02	01/28/02		020125	lc10
Comment(s):	Mercury was analyzed	on 1/28/02	1:26:2	1 PM v	vith batch							
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0164	0.0835	1	J	mg/kg
Arsenic	0.254	0.750	1	1	mg/kg	Molybdenum		0.0634	0.250	1	J	mg/kg
Barium	95.4	0.5	1		mg/kg	Nickel		7.33	0.25	1		mg/kg
Beryllium	0.184	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.606	0.500	1		mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)		0.2	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	7.48	0.25	1		mg/kg	Vanadium		23.8	0.2	1		mg/kg
Copper	9.39	0.50	1		mg/kg	Zinc		53.3	1.0	1		mg/kg
Lead	7.50	0.50	1		mg/kg			-7.2				



ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

01/25/02 Work Order No: 02-01-1088

Preparation:

Total Digestion

Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

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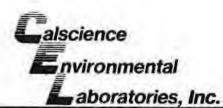
Client Sample Nu	mber			Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	1 J m 1 J m 1 n 1 n 1 n 1 n 1 n 1 n	ch ID
SB-6-9			02-4	91-108	8-50	01/25/02	Solid	01/25/02	01/28/02	020125	lic10
Comment(s):	Mercury was analyzed on	1/28/02 1	29:21	PMw	ith batch	020125lcs7					
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0258	0.0835	1 J	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		0.130	0.250	1 1	mg/kg
Barlum	83.6	0.5	1		mg/kg	Nickel		5.98	0.25	1	mg/kg
Beryllium	0.141	0.250	1	J	mg/kg	Selenium		ND	0.750	1	mg/kg
Cadmium	0.613	0.500	1		mg/kg	Silver		ND	0.250	1	mg/kg
Chromium (Total)	8.02	0.25	1		mg/kg	Thallium		ND	0.750	1	mg/kg
Cobalt	6.23	0.25	1		mg/kg	Vanadium		18.9	0.2	1	mg/kg
Copper	8,35	0.50	1		mg/kg	Zinc		202	1	1	mg/kg
Lead	26.7	0.5	1		mg/kg						
Method Blank	100		099	04-00	7-1,293	N/A	Softd	01/25/02	01/26/02	020125	ilcs6
<u>-arameter</u>	Result	RL	DF	Qual	Units						
Mercury	ND	0.0835	1		mg/kg						
Wethod Blank	F 30 T		099	04-00	7-1,294	NVA	Solid	01/25/02	01/28/02	02012	ics7
<u>Parameter</u>	Result	RL	DF	Qual	Units						
Mercury	ND	0.0835	1		mg/kg						
Method Blank			097	-01-00	2-3,076	N/A	Solid	01/25/02	01/28/02	02012	Sles9
Parameter	Result	RL	DF	Qual	<u>Units</u>	<u>Parameter</u>		Result	RL	DF Qual	Units
Antimony	ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1	mg/kg
Arsenic	ND	0.750	1		mg/kg	Nickel		ND	0.250	1	mg/kg
Barium	ND	0.500	1		mg/kg	Selenium		ND	0.750	1	mg/kg
Beryllium	ND	0.250	1		mg/kg	Silver		ND	0.250	1	mg/kg
Cadmium	ND	0.500	1		mg/kg	Thallium		ND	0.750	1	mg/kg
Chromium (Total)	ND	0.250	1		mg/kg	Vanadium		ND	0.250	1	mg/kg
Cobalt	ND	0.250	1		mg/kg	Zinc		0.264	1.00	1 J	mg/kg
Copper	ND	0.500	1		mg/kg	Lead		ND	0.500	1	mg/kg

RL - Reporting Limit

DF - Dilution Factor ,

Qual - Qualifiers

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ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

Work Order No:

01/25/02 02-01-1088

Preparation:

Total Digestion

Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Samp umber	le	Date Collected	Matrix	Date Prepared	Date Analyzed	C	C Bate	ch ID
Method Blank			097	-01-00	12-3,077	N/A	Solid	01/25/02	01/28/02	• (20125	lc10
<u>Parameter</u>	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Arsenic	0.205	0.750	1	J	mg/kg	Nickel		ND	0.250	1		mg/kg
Barium	ND	0.500	1		mg/kg	Selenium		ND	0.750	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Silver		ND	0.250	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Chromium (Total)	ND	0.250	1		mg/kg	Vanadium		ND	0.250	1		mg/kg
Cobalt	ND	0.250	1		mg/kg	Zinc		ND	1.00	1		mg/kg
Copper	ND	0.500	1		mg/kg	Lead		ND	0.500	1		mg/kg

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

Ext. + D/I

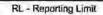
Method:

TPH - Carbon Range

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bate	ch ID
SB-8-5			02-	01-108	8-1	01/25/02	Solid	01/25/02	01/28/02	020125	05sa
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qual	<u>Units</u>
C7	ND		4		mg/kg	C19-C20		ND		1	mg/kg
C8	ND		1		mg/kg	C21-C22		ND		1	mg/kg
C9-C10	ND		1		mg/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		1		mg/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		ND		1	mg/kg
C15-C16	ND		1		mg/kg	C33-C36		ND		1	mg/kg
C17-C18	ND		1		mg/kg	C7-C36 Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control		Qual	2030	C/-030 TOTAL		ND	5.0		mgrkg
Decachiorobiphenyl	103	<u>Limits</u> 45-149		1							
3-8-5 DUP	100	10.10	02-	01-108	8-2	01/25/02	Solid	01/25/02	01/26/02	020125	0584
					7-7						
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF Qual	<u>Units</u>
C7	ND		1		mg/kg	C19-C20		ND		1	mg/kg
C8	ND		1		mg/kg	C21-C22		ND		1	mg/kg
C9-C10	ND		1		mg/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		1		mg/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		ND		1	mg/kg
C15-C16	ND		1		mg/kg	C33-C36		ND		1	mg/kg
C17-C18	ND		1		mg/kg	C7-C36 Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control		Qua		May Care (Com					
Decachlorobiphenyl	104	<u>Limits</u> 45-149									
58-6-10			02	01-10	38-3	01/25/02	Solid	01/25/02	01/26/02	020125	0568
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qual	Units
C7	ND		4		mg/kg	C19-C20		ND		1	mg/kg
C8	ND		1		mg/kg	C21-C22		ND		1	mg/kg
C9-C10	ND		1		rng/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		1		mg/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		4		mg/kg	C29-C32		ND		1	mg/kg
C15-C16	ND		1		mg/kg	C33-C36		ND		1	mg/kg
C17-C18	ND		1		rng/kg	C7-C36 Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control	G.	Qua		5, 550 (bull			2.0		Sur
cachlorobiphenyl	93	<u>Limits</u> 45-149	g								



DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

Ext. + D/I

Method:

TPH - Carbon Range

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number			100,000	Sampl umber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bate	h ID
\$8-8-10 DUP			02-	01-108	8-4	01/25/02	Solid	01/25/02	01/26/02	020125	05sa
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF Qual	Units
C7	ND		1		mg/kg	C19-C20		ND		1	mg/kg
C8	ND		1		mg/kg	C21-C22		ND		1	mg/kg
C9-C10	ND		1		mg/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		1		mg/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		ND		1	mg/kg
C15-C16	ND		1		mg/kg	C33-C36		ND		1	mg/kg
C17-C18	ND		1		mg/kg	C7-C36 Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control		Qual	42.000	01-030 (Otal		(NO	5.0		mgmg
Decachlorobiphenyl	96	<u>Limits</u> 45-149									
1-8-15			02-	01-108	8-5	01/25/02	Solid	01/25/02	01/26/02	020128	056a
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qual	Units
C7	ND		1		mg/kg	C19-C20		NO		1	mg/kg
C8	ND		1		mg/kg	C21-C22		ND		1	mg/kg
C9-C10	ND		1		mg/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		1		mg/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		ND		1	mg/kg
C15-C16	ND		1		mg/kg	C33-C36		ND		1	mg/kg
C17-C18	ND		1		mg/kg	C7-C36 Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decachlorobiphenyl	92	45-149									
59-4-2		en.	02	01-10	18-10	01/25/02	Solid	01/25/02	01/26/02	02012	05sa
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qual	Units
C7	ND		1		mg/kg	C19-C20		ND		1	mg/kg
C8	ND		1		mg/kg	C21-C22		ND		1	mg/kg
C9-C10	ND		1		mg/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		1		mg/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		ND		1	mg/kg
C15-C16	ND		1		mg/kg	C33-C36		ND		1	mg/kg
C17-C18	ND		1		mg/kg	C7-C36 Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control		Qua		1919		276	710		

RL - Reporting Limit ,

DF - Dilution Factor ,

Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 . TEL: (714) 895-5494 . FAX: (714) 894-7501

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

Ext. + D/I

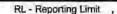
Method:

TPH - Carbon Range

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl umber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bate	ch ID
SB-4-5			02-	01-108	8-11	01/25/02	Solid	01/25/02	01/26/02	020125	05sa
Parameter	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF Qual	Units
C7	ND		1		mg/kg	C19-C20		ND		1	mg/kg
C8	ND		1		mg/kg	C21-C22		ND		4	mg/kg
C9-C10	ND		1		mg/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		1		mg/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		4		mg/kg	C29-C32		ND		1	mg/kg
C15-C16	NO		1		mg/kg	C33-C36		ND		4	mg/kg
2 111(2)(2)(2)			1			C7-C36 Total		ND	- 0	*	
C17-C18	ND		3.		mg/kg	C/-C36 10(a)		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control		Qual	V.						
Decachlorobiphenyl	96	<u>Limits</u> 45-149									
Decachioropiphenyi	96	40-149						NAME AND ADDRESS OF THE PARTY O			
3-4-10		lii.	02-	01-106	8-12	01/25/02	Solid	01/25/02	01/26/02	020125	0553
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qual	Units
67	N/D		1			010.000		ND		1	
C7	ND		100		mg/kg	C19-C20		ND			mg/kg
C8	ND		1		mg/kg	C21-C22		ND		1	mg/kg
C9-C10	ND		1		mg/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		1		mg/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		ND		1	mg/kg
C15-C16	ND		1		mg/kg	C33-C36		ND		1	mg/kg
C17-C18	ND		1		mg/kg	C7-C36 Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decachlorobiphenyl	83	45-149					American Control				
SB-4-15			02	01-100	38-13	01/25/02	Solid	01/25/02	01/26/02	020125	05sa
Parameter	Result	RL	DF	Qual	Units	<u>Parameter</u>		Result	RL	DF Qual	Units
C7	ND		1		mg/kg	C19-C20		ND		1	mg/kg
CB	ND		1		mg/kg	C21-C22		ND		1	mg/kg
C9-C10	ND		4		mg/kg	C23-C24		ND		1	mg/kg
C11-C12	NO		4		mg/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		ND		1	
C15-C14 C15-C16			1			C33-C36		0.000		1	mg/kg
	ND		1		mg/kg	C7-C36 Total		ND	5.0		mg/kg
C17-C18	ND	- Ar			mg/kg	C/-Cao Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control Limits		Qua	Ī						
cachlorobiphenyl	90	45-149	61								



DF - Dilution Factor

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

Ext. + D/I

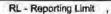
Method:

TPH - Carbon Range

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampli Imber	8	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bate	ch ID
SB-5-5			024	01-108	8-25	01/25/02	Solid	01/25/02	01/26/02	020125	05sa
Parameter	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF Qual	<u>Units</u>
C7	ND		1		mg/kg	C19-C20		ND		1	mg/kg
C8	ND		4		mg/kg	C21-C22		ND		1	mg/kg
C9-C10	ND		4		mg/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		4		mg/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		ND		1	mg/kg
C15-C16	ND		1			C33-C36		ND			
C17-C18	0.04				mg/kg					1	mg/kg
	ND		1		mg/kg	C7-C36 Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	<u>Control</u> <u>Limits</u>		Qual							
Decachlorobiphenyl	74	45-149									
L5-10			024	01-108	8-28	01/25/02	Solid	01/25/02	01/26/02	020125	U588
Parameter	Result	RL .	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF Qual	Units
C7	ND		4		mg/kg	C19-C20		ND		1	mg/kg
C8	ND		1		mg/kg	C21-C22		ND		1	mg/kg
C9-C10	ND		1		mg/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		1		mg/kg	C25-C28		ND		9	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		ND		1	mg/kg
C15-C16	ND		4		mg/kg	C33-C36		ND		1	mg/kg
C17-C18	ND		1		mg/kg	C7-C36 Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control	ń	Qual	11. 6. 10.	01-030 10(2)		NO	5.0		mgmg
Decachlorobiphenyl	64	<u>Limits</u> 45-149									
SB-5-15			02-	01-108	8-27	01/25/02	Solid	01/25/02	01/28/02	020125	05sa
Parameter .	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qual	Units
C7	ND		4		mg/kg	C19-C20		ND		1	
C8	ND		1		mg/kg	C21-C22		ND		1	mg/kg
C9-C10											mg/kg
Section Co. Co.	ND		1		mg/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		1		mg/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		ND		1	mg/kg
C15-C16	ND		1		mg/kg	C33-C36		ND	-020	1	mg/kg
C17-C18	ND		1		mg/kg	C7-C36 Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control		Qual							
nachlorobiphenyl	70	45-149									



ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

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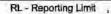
Method:

TPH - Carbon Range

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bat	ch ID
SB-32-5		ili.	02-	01-108	8-34	01/25/02	Solid	01/25/02	01/26/02	020125	05sa
Parameter	Result	RL	DE	Qual	Units	<u>Parameter</u>		Result	RL	DF Qual	Units
C7	ND		1		mg/kg	C19-C20		ND		1	mg/kg
C8	ND		1		mg/kg	G21-G22		ND		1	mg/kg
C9-C10	ND		1		mg/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		1		mg/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		4			C29-C32					
7(1)717	27-25-1		1		mg/kg	The state of the s		ND		1	mg/kg
C15-C16	ND		1		mg/kg	C33-C36		ND		1	mg/kg
C17-C18	ND		1		mg/kg	C7-C36 Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decachlorobiphenyl	77	45-149									
1-32-10			02-	01-108	88-35	01/25/02	Solid	01/25/02	01/28/02	020125	05sa
											.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF Qual	Units
C7	ND		1		mg/kg	C19-C20		ND		1	mg/kg
C8	ND		1		mg/kg	C21-C22		ND		1	mg/kg
C9-C10	ND		1		mg/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		1		mg/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		ND		1	mg/kg
C15-C16	ND		1		mg/kg	C33-C36		ND		1	mg/kg
C17-C18	ND		1		mg/kg	C7-C36 Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control	·	Qual		C7-C30 Total		IAD	5.0		mgrkg
Decachlorobiphenyl	92	<u>Limits</u> 45-149		-							
58-32-15			02-	01-10	8-38	01/25/02	Solid	01/25/02	01/26/02	02012	0544
	5		n.c.		11010	Access to a			-	DE 0	LENS
Parameter .	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qual	Units
C7	ND		1		mg/kg	C19-C20		ND		1	mg/kg
C8	ND		1		mg/kg	C21-C22		ND		1	mg/kg
C9-C10	ND		1		mg/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		1		mg/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		ND		1	mg/kg
C15-C16	ND		1		mg/kg	C33-C36		ND		1	mg/kg
C17-C18	ND		1		mg/kg	C7-C36 Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control		Qua		The same in the same		,,,,,	J.V		
cachlorobiphenyl	58	<u>Limits</u> 45-149									



DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

Work Order No: Preparation: 01/25/02 02-01-1088

Ext. + D/I

Method:

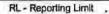
TPH - Carbon Range

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bate	ch ID
SB-33-5			02-	01-108	8-40	01/25/02	Solid	01/25/02	01/26/02	020125	05sa
Parameter	Result	RL	DE	Qual	<u>Units</u>	Parameter		Result	RL	DF Qual	<u>Units</u>
C7	ND		1		mg/kg	C19-C20		ND		1	mg/kg
C8	ND		1		mg/kg	C21-C22		ND		1	mg/kg
C9-C10	ND		1		mg/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		1		mg/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		ND		1	mg/kg
C15-C16	ND		1		mg/kg	C33-C36		ND		1	mg/kg
C17-C18	ND		1		mg/kg	C7-C36 Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control		Qual		07-030 Total		(45)	3.0		mg/kg
Decachlorobiphenyl	96	<u>Limits</u> 45-149									
1-33-10		1	02-	01-108	B-41	01/26/02	Solid	01/25/02	01/26/02	020125	05sa

Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF Qual	<u>Units</u>
C7	ND		1		mg/kg	C19-C20		ND		1	mg/kg
C8	ND		1		mg/kg	C21-C22		ND		1	mg/kg
C9-C10	ND		1		mg/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		1		mg/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		ND		1	mg/kg
C15-C16	ND		1		mg/kg	C33-C36		ND		1	mg/kg
C17-C18	ND		1		mg/kg	C7-C36 Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control Limits		Qual	Jr 2' O'						
Decachlorobiphenyl	98	45-149		conne							
5B-32-15			02-	01-108	8-42	01/25/02	Solid	01/25/02	01/26/02	020125	0553
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qual	Units
C7	ND		1		mg/kg	C19-C20		ND		1	mg/kg
C8	ND		1		mg/kg	C21-C22		ND		1	mg/kg
C9-C10	ND		4		mg/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		4		mg/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		ND		1	mg/kg
C15-C16	ND		1			C33-C36		ND		1	
C17-C18	ND		1		mg/kg mg/kg	C7-C36 Total		ND	5.0	1	mg/kg mg/kg
Surrogates:	REC (%)	Control	1	Qua		O7-COC TOTAL		140	3.0		myrkt
achlorobiphenyl	104	Limits 45-149									



DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

Ext. + D/I

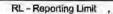
Method:

TPH - Carbon Range

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bate	th ID
98-7-5			02-	01-108	8-43	01/25/02	Solid	01/25/02	01/26/02	020125	05sa
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF Quai	Units
C7	ND		1		mg/kg	C19-C20		ND		1	mg/kg
C8	ND		1		mg/kg	C21-C22		ND		1	mg/kg
C9-C10	ND		1		mg/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		1		mg/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		ND		1	mg/kg
C15-C16	ND		1		mg/kg	C33-C36		ND		1	mg/kg
C17-C18	ND		4		mg/kg	C7-C36 Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control		Qual		01-000 Total		NO	3.0		mgmg
Decachlorobiphenyl	99	<u>Limits</u> 45-149									
3-7-10	0.0000000000000000000000000000000000000		02-	01-108	IB-45	01/25/02	Solid	01/25/02	01/28/02	020125	05sa
								The second secon			
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qual	<u>Units</u>
C7	ND		1		mg/kg	C19-C20		ND		1	mg/kg
C8	ND		1		mg/kg	C21-C22		ND		1	mg/kg
C9-C10	ND		1		mg/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		1		mg/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		ND		1	mg/kg
C15-C16	ND		1		mg/kg	C33-C36		ND		1	mg/kg
C17-C18	ND		1		mg/kg	C7-C36 Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control	ď	Qual	200	0. 000 10.01		110	0.0	,	mg/ng
Decachlorobiphenyl	93	<u>Limits</u> 45-149									
SB-7-15		-	02-	01-10	18-47	01/25/02	Solid	01/25/02	01/27/02	02012	06sa
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qual	Units
C7	NO		1		mg/kg	C19-C20		ND		1	mg/kg
C8	ND		1		mg/kg	C21-C22		ND		1	mg/kg
C9-C10	ND		1		mg/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		*		mg/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		ND		1	mg/kg
C15-C16	ND		1		mg/kg	C33-C36		ND		1	mg/kg
C17-C18	ND		1		mg/kg	C7-C36 Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control		Qua	Vince ha	07-000 Total		140	5.0	1	mg/K
cachloroblphenyl	86	<u>Limits</u> 45-149									



DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

01/25/02

Work Order No:

02-01-1088 Ext. + D/1

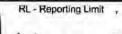
Preparation: Method:

TPH - Carbon Range

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampli Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bate	ch ID
SB-6-5			02-	01~108	8-49	01/25/02	Solid	01/25/02	01/27/02	020125	06sa
<u>Parameter</u>	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF Qual	<u>Units</u>
C7	ND		1		mg/kg	C19-C20		ND		1	mg/kg
C8	ND		1		mg/kg	C21-C22		0.81		1	mg/kg
C9-C10	ND		1		mg/kg	C23-C24		1.8		1	mg/kg
C11-C12	ND		1		mg/kg	C25-C28		9.4		1	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		19		1	mg/kg
C15-C16	ND		1		mg/kg	C33-C36		12		1	mg/kg
C17-C18	ND		1		mg/kg	C7-C36 Total		43	5	1	mg/kg
Surrogales:	REC (%)	Control		Qual							
Decachlorobiphenyl	101	45-149									
169			02-	01-108	18-50	01/25/02	Solid	01/25/02	01/27/02	020125	06su
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qual	Units
C7	ND		1		mg/kg	C19-C20		2.7		4	mg/kg
C8	ND		1		mg/kg	C21-C22		11		1	mg/kg
C9-C10	ND		4		mg/kg	C23-C24		24		1	mg/kg
C11-C12	ND		1		mg/kg	C25-C28		100		1	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		150		4	mg/kg
C15-C16	ND		1		mg/kg	C33-C36		84		1	mg/kg
C17-C18	ND		1		mg/kg	C7-C36 Total		370	5	1	mg/kg
Surrogates:	REC (%)	Control Limits		Qual		3.0.2.2.1.2.00		20.4			
Decachlorobiphenyl	89	45-149									
Method Blank	No.		098	-03-00	2-1,605	N/A	Solid	01/25/02	01/27/02	020126	0 8 5a
Parameter Parameter	Result	RL	DF	Qual	Units						
TPH as Diesel	ND	5.0	1		mg/kg						
Surrogates:	REC (%)	Control		Qual							
Decachlorobiphenyl	94	Limits									



DF - Dilution Factor ,



ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

Ext. + D/I

Method:

TPH - Carbon Range

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	OC Batch ID
Method Blank	098-03-002-1,606	N/A	Solid	01/25/02	01/27/02	0201250648

Parameter OF Qual Units Result RL TPH as Diesel ND 5.0 mg/kg Surrogates: REC (%) Control Qual Limits Decachlorobiphenyl 100 45-149

RL - Reporting Limit ,

DF - Dilution Factor

ANALYTICAL REPORT

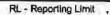
Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation: Method: 01/25/02 02-01-1088 EPA 3545 EPA 8081A/8082

Project: LAUSD-East Valley M.S. / 47127

Page 1 of 2

Client Sample Number				Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Batch	ID
SB-21-0.5			02-	01-108	8-9	01/25/02	Solid	01/27/02	01/28/02	020	1271	
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Q	ual L	<u>Jnits</u>
Alpha-BHC	ND	5.0	1		ug/kg	4,4'-DDT		19	5	1		ug/kg
Gamma-BHC	ND	5.0	1		ug/kg	Endosulfan Sulf	ate	ND	5.0	1		ug/kg
Beta-BHC	ND	5.0	1		ug/kg	Methoxychlor		ND	5.0	1		ug/kg
Heptachlor	ND	5.0	1		ug/kg	Chlordane		ND	50	1		ug/kg
Delta-BHC	ND	5.0	1		ug/kg	Toxaphene		ND	100	1		Jg/kg
Aldrin	ND	5.0	1		ug/kg	Aroclor-1016		ND	50	1		ug/kg
Heptachlor Epoxide	ND	5.0	1		ug/kg	Araclor-1221		ND	50	1		ug/kg
Endosulfan I	ND	5.0	1		ug/kg	Aroclor-1232		ND	50	1		ig/kg
Dieldrin	ND	5.0	1		ug/kg	Aroclor-1242		ND	50	1		ug/kg
4.4'-DDE	3.4	5.0	1	J	ug/kg	Aroclor-1248		ND	50	1		ug/kg
Endrin	ND	5.0	1		ug/kg	Aroclor-1254		ND	50	1		ug/kg
≟ndrin Aldehyde	ND	5.0	1		ug/kg	Aroclor-1260		ND	50	1		ug/kg
4,4'-DDD	3.1	5.0	4	J	ug/kg	Aroclor-1262		ND	50	1		ug/kg
Endosulfan II	ND	5.0	1		ug/kg	Endrin Ketone		ND	5.0	1		ug/kg
Surrogates:	REC (%)	Control		Qual	100	Surrogates:		REC (%)	Control		ual .	- Bire
Decachlorobiphenyl	73	<u>Limits</u> 50-130				2,4,5,6-Tetrachi	oro-m-Xylene	64	<u>Limits</u> 50-130			
5B-1-1			62-	01-108	8-18	01/25/02	Solid	01/27/02	04/26/02	020	1271	
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Q	uai l	Units
Alpha-BHC	ND	5.0	1		ug/kg	4.4'-DOT		2.9	5.0	1 3	1	ug/kg
Gamma-BHC	ND	5.0	1		ug/kg	Endosulfan Sulf	ate	ND	5.0	1		ug/kg
Beta-BHC	ND	5.0	1		ug/kg	Methoxychlor	40.00	ND	5.0	1		ug/kg
Heptachlor	ND	5.0	1		ug/kg	Chlordane		ND	50	1		ug/kg
Delta-BHC	ND	5.0	1		ug/kg	Toxaphene		ND	100	1		ug/kg
Aldrin	ND	5.0	1		ug/kg	Aroclor-1016		ND	50	1		ug/kg
Heptachlor Epoxide	ND	5.0	1		ug/kg	Aroclor-1221		ND	50	4		ug/kg
Endosulfan I	ND	5.0	1		ug/kg	Aroclor-1232		ND	50	1		ug/kg
Dieldrin	ND	5.0	1		ug/kg	Aroclor-1242		ND	50	1		ug/kg
4,4'-DDE	2.1	5.0	1	J	ug/kg	Aroclor-1248		ND	50	4		ug/kg
Endrin	ND	5.0	1		ug/kg	Aroclor-1254		ND	50	4		ug/k
Endrin Aidehyde	ND	5.0	1		ug/kg	Aroclor-1260		ND	50	1		ug/k
4.4'-DDD	ND	5.0	1		ug/kg	Aroclor-1262		ND	50	4		ug/k
Endosulfan II	ND	5.0	1		ug/kg	Endrin Ketone		ND	5.0	9		ug/k
Surrogates:	REC (%)	Control		Qual		Surrogates:		REC (%)	Control	C	ual	ug/K
		Limits							Limits			



DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240

Long Beach, CA 90802-4432

Date Received: 01/25/02

Work Order No: Preparation: Method: 02-01-1088 EPA 3545 EPA 8081A/8082

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Samplumber	8	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
SB-1-3			02-	01-108	8-19	01/25/02	Solid	01/27/02	01/28/02	0	20127	1
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DE	Qual	<u>Units</u>
Alpha-BHC	ND	5.0	1		ug/kg	4,4'-DDT		ND	5.0	1		ug/kg
Gamma-BHC	ND	5.0	1		ug/kg	Endosulfan Sulf	ale	ND	5.0	1		ug/kg
Beta-BHC	ND	5.0	1		ug/kg	Methoxychlor		ND	5.0	1		ug/kg
Heptachlor	ND	5.0	1		ug/kg	Chlordane		ND	50	1		ug/kg
Delta-BHC	ND	5.0	1		ug/kg	Toxaphene		ND	100	1		ug/kg
Aldrin	ND	5.0	1		ug/kg	Aroclor-1016		ND	50	1		ug/kg
Heptachlor Epoxide	ND	5.0	1		ug/kg	Aroclor-1221		ND	50	1		ug/kg
Endosulfan I	ND	5.0	1		ug/kg	Aroclor-1232		ND	50	1		ug/kg
Dieldrin	ND	5.0	1		ug/kg	Aroclor-1242		ND	50	1		ug/kg
4.4'-DOE	ND	5.0	1		ug/kg	Aroclor-1248		ND	50	1		ug/kg
ndrin	ND	5.0	1		ug/kg	Aroclor-1254		ND	50	1		ug/kg
≟ndrin Aldehyde	ND	5.0	1		ug/kg	Aroclor-1260		ND	50	1		ug/kg
4,4'-DDD	ND	5.0	1		ug/kg	Arocior-1262		ND	50	1		ug/kg
Endosulfan II	ND	5.0	1		ug/kg	Endrin Ketone		ND	5.0	1		ug/kg
Surrogates;	REC (%)	Control		Qual		Surrogates:		REC (%)	Control Limits		Qual	Derke
Decachlorobiphenyl	69	<u>Limits</u> 50-130				2,4,5,6-Tetrachi	oro-m-Xylene	70	50-130			
Method Blank			09	01-01	4-2,369	N/A	Solid	01/27/02	01/28/02	(20127	4
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Alpha-BHC	ND	5.0	1		ug/kg	4,4'-DDT		ND	5.0	1		ug/kg
Gamma-BHC	ND	5.0	1		ug/kg	Endosulfan Sulf	fate	ND	5.0	1		ug/kg
Beta-BHC	ND	5.0	1		ug/kg	Methoxychlor		ND	5.0	1		ug/kg
Heptachlor	ND	5.0	1		ug/kg	Chlordane		ND	50	1		ug/kg
Delta-BHC	ND	5.0	1		ug/kg	Toxaphene		ND	100	1		ug/kg
Aldrin	ND	5.0	1		ug/kg	Aroclor-1016		ND	50	1		ug/kg
Heptachlor Epoxide	ND	5.0	1		ug/kg	Araclor-1221		ND	50	1		ug/kg
Endosulfan I	ND	5.0	1		ug/kg	Aroclor-1232		ND	50	1		ug/kg
Dieldrin	ND	5.0	1		ug/kg	Aroclor-1242		ND	50	1		ug/kg
4,4'-DDE	ND	5.0	1		ug/kg	Aroclor-1248		ND	50	1		ug/kg
Endrin	ND	5.0	- 1		ug/kg	Aroclor-1254		ND	50	1		ug/kg
Endrin Aldehyde	ND	5.0	1		ug/kg	Aroclor-1260		NO	50	1		ug/kg
4,4'-DDD	ND	5.0	1		ug/kg	Araclor-1262		ND	50	1		ug/kg
Endosulfan II	ND	5.0	1		ug/kg	Endrin Ketone		ND	5.0	-1		ug/kg
Surrogates:	REC (%)	Control		Qua	7	Surrogates:		REC (%)	Control		Qual	-
		Limits							Limits			

RL - Reporting Limit

DF - Dilution Factor

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/25/02 02-01-1088 EPA 3545

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	C	C Bato	th ID
SB-30-1	, h. 100		02-	01-106	8-14	01/25/02	Solid	01/27/02	01/28/02	(20127	1
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Alpha-BHC	ND	5.0	1		ug/kg	Endrin		ND	5.0	1		ug/kg
Gamma-BHC	ND	5.0	1		ug/kg	Endrin Aldehyde		ND	5.0	1		ug/kg
Deta-BHC	ND	5.0	1		ug/kg	4,4'-DDD		ND	5.0	1		ug/kg
-leptachlor	ND	5.0	1		ug/kg	Endosulfan II		ND	5,0	1		ug/kg
Delta-BHC	ND	5.0	1		ug/kg	4,4'-DDT		3.6	5.0	1	J	ug/kg
Aldrin	ND	5.0	1		ug/kg	Endosulfan Sulfa	te	ND	5.0	1		ug/kg
Heptachlor Epoxide	ND	5.0	1		ug/kg	Methoxychlor		ND	5.0	1		ug/kg
Endosulfan I	ND	5.0	1		ug/kg	Chlordane		ND	50	1		ug/kg
Dieldrin	ND	5.0	1		ug/kg	Toxaphene		ND	100	1		ug/kg
1,4'-DDE	ND	5.0	1		ug/kg	Endrin Ketone		ND	5.0	1		ug/kg
urrogates:	REC (%)	Control		Qual	20.00	Surrogates:		REC (%)	Control		Qual	
Decachlorobiphenyl	71	50-130				2,4,5,6-Tetrachlo	ro-m-Xylene	73	50-130			
SB-30-3			02-	01-108	8-15	01/25/02	Solid	01/27/02	01/28/02	ſ	20127	1
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DE	Qual	Units
Apha-BHC	ND	5.0	1		ug/kg	Endrin		ND	5.0	1		ug/kg
Gamma-BHC	ND	5.0	1		ug/kg	Endrin Aldehyde		ND	5.0	1		ug/kg
Beta-BHC	ND	5.0	1		ug/kg	4,4'-DDD		ND	5.0	1		ug/kg
Heptachlor	ND	5.0	1		ug/kg	Endosulfan II		ND	5.0	1		ug/kg
Delta-BHC	ND	5.0	1		ug/kg	4,4'-DDT		3.7	5.0	1	J	ug/kg
Aldrin	ND	5.0	4		ug/kg	Endosulfan Sulfa	te	ND	5.0	1		ug/kg
Heptachlor Epoxide	ND	5.0	1		ug/kg	Methoxychlor		ND	5.0	1		ug/kg
Endosulfan I	ND	5.0	1		ug/kg	Chlordane		ND	50	1		ug/kg
Dieldrin	ND	5.0	1		ug/kg	Toxaphene		ND	100	1		ug/kg
	ND	5.0	1		ug/kg	Endrin Ketone		ND	5.0	1		ug/kg
4,4'-DDE								DEC (01)		2.	-	
4,4'-DDE Surrogates:	REC (%)	Control Limits		Qua		Surrogates:		REC (%)	Control Limits	-	Qual	

RL - Reporting Limit ,

DF - Dilution Factor .



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Client Sample Number				Sample mber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Batch IC)
SB-30-3 DUP			024	11-108	8-16	01/25/02	Solid	01/27/02	01/28/02	020	\$271	
Parameter	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF Q	ual Un	its
Alpha-BHC	ND	5.0	1		ug/kg	Endrin		ND	5.0	1	ug	/kg
Gamma-BHC	ND	5.0	1		ug/kg	Endrin Aldehyd	e	ND	5.0	1	ug	/kg
Beta-BHC	ND	5.0	1		ug/kg	4,4'-DDD		ND	5.0	1	ug	/kg
Heptachlor	ND	5.0	1		ug/kg	Endosulfan II		ND	5.0	1	ug	
Delta-BHC	ND	5.0	4		ug/kg	4,4'-DDT		ND	5.0	1	ug	/kg
Aldrin	ND	5.0	- 1		ug/kg	Endosulfan Sul	fate	ND	5.0	1	ug	
Heptachlor Epoxide	ND	5.0	1		ug/kg	Methoxychlor		ND	5.0	1	ug	
Endosulfan I	ND	5,0	1		ug/kg	Chlordane		ND	50	1	ug	0000
Dieldrin	ND	5.0	1		ug/kg	Toxaphene		ND	100	1	ug	/kg
4,4'-DDE	ND	5.0	1		ug/kg	Endrin Ketone		ND	5.0	1	ug	
'urrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits	<u>Q</u>	ual	
Decachlorobiphenyl	73	50-130				2,4,5,6-Tetrach	loro-m-Xylene	74	50-130			
SB-10-5			02-	01-108	18-17	01/25/02	Solid	01/27/02	01/28/02	020	1271	
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF Q	ual <u>Un</u>	nits
Alpha-BHC	ND	5.0	1		ug/kg	Endrin		ND	5.0	1	ug	/kg
Gamma-BHC	ND	5.0	- 1		ug/kg	Endrin Aldehyd	le	ND	5.0	1	ug	/k
Beta-BHC	ND	5.0	1		ug/kg	4,4'-DDD		ND	5.0	1	ug	/kg
Heplachlor	ND	5.0	1		ug/kg	Endosulfan II		ND	5.0	1	ug	/kg
Delta-BHC	ND	5.0	1		ug/kg	4,4'-DDT		ND	5.0	1	ug	
Aldrin	ND	5.0	1		ug/kg	Endosulfan Su	Ifate	ND	5.0	1	ug	
Heptachlor Epoxide	ND	5.0	1		ug/kg	Methoxychlor		ND	5.0	1	ug	/kg
Endosulfan I	ND	5.0	1		ug/kg	Chlordane		ND	50	1	ug	/k
Dieldrin	ND	5.0	1		ug/kg	Toxaphene		ND	100	1	ug	
4,4'-DDE	ND	5.0	1		ug/kg	Endrin Ketone		ND	5.0	1	ug	j/k
Surrogates:	REC (%)	Control Limits		Qual	0	Surrogates:		REC (%)	Control Limits	<u>C</u>	ual	

RL - Reporting Limit ,

DF - Dilution Factor ,



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Client Sample Number				Sample imber	Date Collected Matrix	Date Prepared	Date Analyzed	QC Batch ID		
Method Blank	ing.		099	-07-011-19	N/A Solid	01/27/02	01/28/02	02012	71	
Parameter	Result	RL	DE	Qual Units	<u>Parameter</u>	Result	RL	DF Qua	Units	
Alpha-BHC	ND	5.0	1	ug/kg	Endrin	ND	5.0	1	ug/kg	
Gamma-BHC	ND	5.0	1	ug/kg	Endrin Aldehyde	ND	5.0	1	ug/kg	
Bela-BHC	ND	5.0	1	ug/kg	4,4'-DDD	ND	5.0	1	ug/kg	
Heptachlor	ND	5.0	1	ug/kg	Endosulfan II	ND	5.0	1	ug/kg	
Delta-BHC	ND	5.0	1	ug/kg	4,4'-DDT	ND	5.0	1	ug/kg	
Aldrin	ND	5.0	1	ug/kg	Endosulfan Sulfate	ND	5.0	1	ug/kg	
Heptachlor Epoxide	ND	5.0	1	ug/kg	Methoxychlor	ND	5.0	1	ug/kg	
Endosulfan I	ND	5.0	1	ug/kg	Chlordane	ND	50	1	ug/kg	
Dieldrin	ND	5.0	1	ug/kg	Toxaphene	ND	100	1	ug/kg	
4,4'-DDE	ND	5.0	1	ug/kg	Endrin Ketone	ND	5.0	1	ug/kg	
'urrogates:	REC (%)	Control Limits	ď	Qual	Surrogates:	REC (%)	Control Limits	Qua	1	
Decachlorobiphenyl	65	50-130			2,4,5,6-Tetrachloro-m-Xylene	70	50-130			

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Client Sample Number	- Linus	to the second		Sampl Imber	8	Date Collected	Matrix	Date Prepared	Date Analyzed	q	C Bato	th ID
SB-1-3 DUP			02-	01-106	8-20	01/25/02	Solid	01/27/02	01/28/02	0	20127	1
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DE	Qual	Units
Arodor-1016	ND	50	1		ug/kg	Aroclor-1248		ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254		ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260		ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262		ND	50	1		ug/kg
Surrogates:	REC (%)	Control		Qual		Surrogates:		REC (%)	Control Limits		Qual	
Decachlorobiphenyl	85	50-130				2,4,5,6-Tetrach	oro-m-Xylene	82	50-130			
Method Blank			099	-07-DC	9-25	N/A	Solid	01/27/02	01/28/02	•	120127	1
'arameter	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248		ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254		ND	50	1		ug/kg
Arodor-1232	NO	50	1		ug/kg	Aroclor-1260		ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262		ND	50	1		ug/kg
Surrogates:	REC (%)	Control		Qual		Surrogates:		REC (%)	Control Limits		Qual	
Decachlorobiphenyl	76	50-130				2,4,5,6-Tetrach	orn m. Yulone	73	50-130			

ANALYTICAL REPORT

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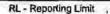
Method:

EPA 8270C

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Client Sample Number				Sampl umber	e	Date * Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	ch ID
SB-8-5			02-	01-106	8-1	91/25/02	Solid	01/25/02	01/27/02	O.	20125	7
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DE	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	20	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chiorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyi		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
is(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	3		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	1		mg/kg
Vitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	4		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe	m-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	ND	2.5	4		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	31701	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	4		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	slate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	aldit.	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	4		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	4		rng/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pi	nihalato	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	+		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	4		rng/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)		ND	0.50	4		mg/kg
1-Methylnaphthalene	ND	0.40	- 1		mg/kg	Chrysene	yi) i illialate	ND	0.40	4		mg/kg
Hexachlorocyclopentadiene	ND	1.5	4		mg/kg	Di-n-Octyl Phth	nalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	4		mg/kg	Benzo (k) Fluo		ND	0.40	4		mg/kg
2-Chloronaphthalene	ND	0.50	- 4		mg/kg	Benzo (b) Fluo		ND	0.40	4		mg/kg
2-Nitroaniline	ND	0.50	4		mg/kg	Benzo (a) Pyre		ND	0.35	- 1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	4		mg/kg
Acenaphthylene	ND	0.40	4		mg/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		Control House		A CONTRACT OF STREET	ND	0.40	4		
Acenaphthene	ND	0.40	1		mg/kg mg/kg	Benzo (g,h,i) P	or yione	112	0.40	1		mg/kg
Surrogates:	REC (%)	Control Limits		Qua		Surrogates:		REC (%)	Control		Qual	
2-Fluorophenol	73	31-142				Phenol-d6		83	Limits 30-136			
litrobenzene-d5	84	28-139				2-Fluorobiphen	ail	80	33-144			
2,4,6-Tribromophenol												
2,4,0-1 horomopnehol	56	24-152				p-Terphenyl-d1	4	75	23-160			



DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/25/02 02-01-1088 EPA 3545

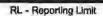
Method:

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Client Sample Number				Sampl mber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	ch (D
SB-6-10	ıΕΣ		02-0	14108	8-3	01/25/02	Solid	01/25/02	01/27/02	O.	20125	7
Parameter .	Result	RL	DF	Qual	Units	Parameter		Result	RL	DE	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropheno	of	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotoluer	ie	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluer		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalat	e	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
3is(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	thylphenol	ND	2.5	1		mg/kg
/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphen		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-		ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenz		ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophe	nol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phtha	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Ph	thalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorober	izidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthr	acene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexy) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene		ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	DI-n-Octyl Phtha	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluora		NO	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluori	anthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyren	ie .	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,	d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) An	thracene	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Pe	rylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg							
Surrogates:	REC (%)	Control Limits		Qua		Surrogates:		REC (%)	Control Limits	4	Qual	
2-Fluorophenol	70	31-142				Phenol-d6		79	30-136			
litrobenzene-d5	84	28-139				2-Fluorobipheny	ył .	75	33-144			
2,4,6-Tribromophenal	54	24-152				p-Terphenyl-d14		76	23-160			



DF - Dilution Factor .

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/25/02 02-01-1088 EPA 3545

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl umber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bate	th ID
SB-8-15	800		02.	01-108	8-5	01/25/02	Solid	01/25/02	01/27/02	0	20125	7
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	iol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl			0.50	1		mg/k
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	7 ,1301-3) = 1111	ND	0.40	1		mg/k
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/k
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/k
Ris(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/k
/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe	and the second s	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	4		mg/kg	2,4,6-Trichloro	T. S. W. L.	ND	0.50	1		mg/k
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	1		mg/k
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/k
Isophorone	ND	0.50	1		mg/kg	Pentachlorophi		ND	2.5	1		mg/k
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	aria.	ND	0.40	1		mg/k
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/k
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/k
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/k
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/k
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/k
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		rng/k
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl P	hthalate	ND	0.50	1		mg/k
Hexachloro-1,3-Butadlene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/k
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/k
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex		ND	0.50	1		mg/k
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ND	0.40	1		mg/k
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	nalate	ND	0.50	1		mg/k
2,4,5-Trichlorophenol	NO	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1		mg/k
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/k
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/k
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/k
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A		ND	0.40	1		mg/k
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1		mg/k
Acenaphthene	ND	0.40	1		mg/kg	Tarina (Birily)			W. 7.12			g
Surrogates:	REC (%)	Control		Qua		Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	79	31-142				Phenol-d6		89	30-136			
Vitrobenzene-d5	93	28-139				2-Fluorobipher	sul	95	33-144			
2,4,6-Tribromophenol	65	24-152				p-Terphenyl-d		90				
z,4,0+1 histomophenoi	05	24-102				h-Laibueuhi-g.	1.4	30	23-160			

RI - Reporting Limit

DF - Dilution Factor

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method:

02-01-1088 EPA 3545 EPA 8270C

01/25/02

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number			Lab Sa Num		Date Collected Matrix	Date Prepared	Date Analyzed	Q	C Batch ID
SB-22-0.5			02-01	-1088-6	01/25/02 Solid	01/25/02	01/27/02	07	201257
Parameter	Result	RL	DE C	Qual Units	<u>Parameter</u>	Result	RL	<u>DF</u>	Qual Units
N-Nitrosodimethylamine	ND	0.50	1	mg/kg	2,4-Dinitrophenol	ND	2,5	1	mg/k
Aniline	ND	0.50	1	mg/kg	4-Nitrophenol	ND	0.50	1	mg/k
Phenol	ND	0.50	1	mg/kg	Dibenzofuran	ND	0.50	1	mg/k
Bis(2-Chloroethyl) Ether	ND	2.5	1	mg/kg	2,4-Dinitrotoluene	ND	0.50	1	mg/k
2-Chlorophenol	ND	0.50	1	mg/kg	2,6-Dinitrotoluene	ND	0.50	1	mg/k
1,3-Dichlorobenzene	ND	0.50	1	mg/kg	Diethyl Phthalate	ND	0.50	1	mg/k
1,4-Dichlorobenzene	ND	0.50	1	mg/kg	4-Chlorophenyl-Phenyl Ether	ND	0.50	1	mg/k
Benzyl Alcohol	ND	0.50	1	mg/kg	Fluorene	ND	0.40	1	mg/k
1,2-Dichlorobenzene	ND	0.50	1	mg/kg	4-Nitroaniline	ND	0.50	1	mg/k
2-Methylphenol	ND	0.50	1	mg/kg	Azobenzene	ND	0.50	1	mg/k
Ris(2-Chloroisopropyl) Ether	ND	0.50	1	mg/kg	4,6-Dinitro-2-Methylphenol	ND	2.5	1	mg/k
J/4-Methylphenol	ND	0,50	1	mg/kg	N-Nitrosodiphenylamine	ND	0.50	1	mg/k
N-Nitroso-di-n-propylamine	ND	0.50	1	mg/kg	2,4,6-Trichlorophenol	ND	0.50	1	mg/k
Hexachloroethane	ND	0.50	1	mg/kg	4-Bromophenyl-Phenyl Ether	ND	0.50	1	mg/k
Nitrobenzene	ND	2.5	1	mg/kg	Hexachlorobenzene	ND	0.50	1	mg/k
sophorone	ND	0.50	1	mg/kg	Pentachlorophenol	ND	2.5	1	mg/k
2-Nitrophenol	ND	0.50	1	mg/kg	Phenanthrene	ND	0.40	1	mg/k
2,4-Dimethylphenol	ND	0.50	1	mg/kg	Anthracene	ND	0.40	1	mg/k
Benzoic Acid	ND	2.5	1	mg/kg	Di-n-Butyl Phthalate	ND	0.50	1	mg/k
Bis(2-Chloroethoxy) Methane	ND	0.50	1	mg/kg	Fluoranthene	ND	0.40	4	mg/k
2,4-Dichlorophenol	ND	0.50	1	mg/kg	Benzidine	ND	10	4	mg/k
1,2,4-Trichlorobenzene	ND	0.50	1	mg/kg	Pyrene	ND	0.40	1	mg/k
Naphthalene	ND	0.40	1	mg/kg	Pyridine	ND	0.50	4	mg/k
4-Chloroaniline	ND	0.50	1	mg/kg	Butyl Benzyl Phthalate	ND	0.50	1	mg/k
Hexachloro-1,3-Butadiene	ND	0.50	1	mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1	mg/k
4-Chloro-3-Methylphenol	ND	0.50	1	mg/kg	Benzo (a) Anthracene	ND	0.40	4	mg/k
2-Methylnaphthalene	ND	0.40	1	mg/kg	Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	mg/k
1-Methylnaphthalene	ND	0.40	1		Chrysene	ND	0.40	1	mg/k
Hexachlorocyclopentadiene	ND	1.5	1	mg/kg	Di-n-Octyl Phthalate	ND	0.50	1	mg/k
2,4,5-Trichlorophenol			4	mg/kg		ND	0.40	1	
2-Chloronaphthalene	ND ND	0.50	1	mg/kg	Benzo (k) Fluoranthene	ND	0.40	1	mg/k
2-Chloronaphthalene 2-Nitroaniline	ND	0.50	1	mg/kg	Benzo (b) Fluoranthene	ND	0.40	1	mg/k
Contraction of			1	mg/kg	Benzo (a) Pyrene			1	mg/k
Dimethyl Phthalate	ND	0.50	1	mg/kg	Indeno (1,2,3-c,d) Pyrene	ND	0.40	1	mg/k
Acenaphthylene	ND	0.40	1	mg/kg	Dibenz (a,h) Anthracene	ND	0.40	1	mg/k
3-Nitroaniline	ND	0.50	1	mg/kg	Benzo (g,h,l) Perylene	ND	0.40	3.	mg/k
Acenaphthene	ND	0.40	1	mg/kg	4-1-11-1	222.44	2000		6.0
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
2-Fluorophenol	92	31-142	2		Phenol-d6	104	30-136		
Vitrobenzene-d5	109	28-139	l.		2-Fluorobiphenyl	107	33-144		
2,4,6-Tribromophenol	75	24-152			p-Terphenyl-d14	101	23-160		

RL - Reporting Limit ,

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/25/02 02-01-1088 EPA 3545 EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sample mber	9	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
\$B-22-7			02-0	21-108	8-7	01/25/02	Solid	01/25/02	01/27/02	0	20125	7
Parameter	Result	RL	DE	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinltrophen	ol	ND	2.5	1		mg/kg
Anlline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ne	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl			0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	C 30-12-6-0-13-6	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
3is(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/kg
Hexachloroethane	ND	0,50	1		mg/kg	4-Bromophenyl			0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	14.00	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pi	nthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth	racene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	A STATE OF THE	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benza (k) Fluor		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0,50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar	Control of the contro	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	, ,_ ,,,,	- V3017		120.00			
Surrogates:	REC (%)	Control		Qual		Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	88	31-142				Phenol-d6		98	30-136			
Vitrobenzene-d5	106	28-139				2-Fluorobiphen	vl	108	33-144			
2,4,6-Tribromophenol	72	24-152				p-Terphenyl-d1		97	23-160			

RL - Reporting Limit

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation:

01/25/02 02-01-1088 **EPA 3545**

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	C	C Bate	ch ID
S8-21-0,5			02-6	01-108	18-9	01/25/02	Solid	01/25/02	01/28/02	ı	20125	7
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DE	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	27	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ne	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	te	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl			0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	,	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop	- X	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl	Andrew Co. Co. of the Co.		0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	31101	1.1	0.4	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		0.32	0.40	1	J	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alata	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	41010	9.5	0.4	4		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND.	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		8.5	0.4	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Ph	athalata	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1				2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	ND	0.50	1		
4-Chloro-3-Methylphenol		0.50	1		mg/kg	3,3'-Dichlorobe		8.2	02000	1		mg/kg
	ND ND	0.40	1		mg/kg	Benzo (a) Anth		ND	0.4 0.50	1		mg/kg
2-Methylnaphthalene	ND	0.40	- 3		mg/kg	Bis(2-Ethylhex)	/i) Phinalate		10000000	- 3		mg/kg
1-Methylnaphthalene			1		mg/kg	Chrysene	white.	9.1	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5			mg/kg	Di-n-Octyl Phth		NO	20.50			mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		7.5	0.4	1		mg/kg
2-Chloronaphthalene 2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (b) Fluor	27 2 4 B W 101 L 11	7.4	0,4	1		mg/kg
	ND	0.50	1		mg/kg	Benzo (a) Pyre		7.5	0.3	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		2.6	0.4	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		0.82	0.40	1		mg/kg
3-Nitroaniline	ND	0,50	1		mg/kg	Benzo (g,h,i) P	erylene	2.2	0.4	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg							
Surrogates:	REC (%)	<u>Cantrol</u> <u>Limits</u>		Qua	ľ	Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	79	31-142	9			Phenol-d6		90	30-136			
Vitrobenzene-d5	99	28-139				2-Fluorobiphen	iyl	104	33-144			
2,4,6-Tribromophenol	69	24-152				p-Terphenyl-d1	4	90	23-160			

RL - Reporting Limit ,

DF - Dilution Factor

Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 . TEL: (714) 895-5494 . FAX: (714) 894-7501

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/25/02 02-01-1088 EPA 3545

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sample mber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Bato	th ID
SB-4-2			02-0	n-108	8-10	01/25/02	Solid	01/25/02	01/27/02	02	0125	7
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF C	Qual	<u>Units</u>
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl			0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
1is(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylohenol	ND	2.5	1		mg/kg
/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop	Contract of the second	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	1		mg/kg
Vitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	31101	ND	0.40	4		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alata	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	aiate	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	4		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pl	athalata	ND	0.50	1		A 100 A
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth	CAN TANAN	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg			ND	0.50	1		
1-Methylnaphthalene	ND	0.40	1			Bis(2-Ethylhex) Chrysene	n) Fillialate	ND	0.40	1		mg/kg
그 사용하는 거리 프로젝트를 다녔다면 하는 사용을 잃었다고 있는 그 모든 물이를 하는	ND	1.5	1		mg/kg	the state of the second of	alata	ND	0.50	4		mg/kg
Hexachlorocyclopentadiene 2,4,5-Trichlorophenol			1		mg/kg	Di-n-Octyl Phth				- 1		mg/kg
	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/kg
2-Chloronaphthalene 2-Nitroaniline	ND ND	0.50	1		mg/kg	Benzo (b) Fluo		ND ND	0.40	1		mg/kg
	- 000	0.50	1		mg/kg	Benzo (a) Pyre		77	0.35			mg/kg
Dimethyl Phthalate	ND	0.50			mg/kg	Indeno (1,2,3-0	A Allendary	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	- 3		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1	-	mg/kg	×1000		25000	2.4			
Surrogates:	REC (%)	Control Limits		Qual	,	Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	91	31-142	5			Phenol-d6		103	30-136			
litrobenzene-d5	106	28-139				2-Fluorobiphen	yl	109	33-144			
2,4,6-Tribromophenal	76	24-152	5			p-Terphenyl-d1		101	23-160			



DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240

Long Beach, CA 90802-4432

Date Received: Work Order No: 01/25/02 02-01-1088

02-01-1088 EPA 3545

Preparation: Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Bato	h ID
SB-4-5			02-	01-108	9-11	01/25/02	Solid	01/25/02	01/27/02	02	0125	1
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF !	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl			0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	2 2020 4 2000	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	- 1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop	The state of the s	ND	0.50	1		mg/kg
-lexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	1		mg/kg
Vitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	4		mg/kg	Fluoranthene	Milita	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	4		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Bulyl Benzyl Pi	nthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	4		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth	27. 27.17.00	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex	A Control of the Cont	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	yi) i iiiiolako	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	nalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	4		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A		ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	4		mg/kg	Benzo (g,h,i) P		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	Delizo (g,ii,i) F	er yieric	NO.	0.40			mg/ng
Surrogates:	REC (%)	Control		Qua		Surrogates:		REC_(%)	Control	30	Qual	
A. Contract of	1.4.2	Limits				EC. 10.12		240	Limits			
2-Fluorophenol	86	31-142				Phenol-d6		95	30-136			
Vitrobenzene-d5	99	28-139				2-Fluorobipher		102	33-144			
2,4,6-Tribromophenol	66	24-152				p-Terphenyl-d*	14	96	23-160			

RL - Reporting Limit

DF - Dilution Factor .

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation:

02-01-1088 EPA 3545

01/25/02

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Bato	th ID
SB-4-10			02-	01-106	8-12	01/25/02	Solid	01/25/02	01/27/02	02	0125	7
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF !	Qual	<u>Units</u>
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	iol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne.	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	r nonyi zanoi	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	1		mg/kg
Vitrobenzene	ND	2.5	1		mg/kg	Hexachloroben	Company of the Compan	ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe	Owner, C.	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ario:	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	istata	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	4		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	4		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl P	hthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex		ND	0.50	4		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	yi) i itti tatate	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	nalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	4		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	4		mg/kg	Indeno (1,2,3-c		ND	0.40	4		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A	Call of the call o	ND	0,40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	Carres (Minn)	or Jiene	110	0.40			Buy
Surrogates:	REC (%)	Control Limits		Qua		Surrogates:		REC (%)	Control Limits	91	Qual	
2-Fluorophenol	93	31-142				Phenol-d6		105	30-136			
Vitrobenzene-d5	113	28-139				2-Fluorobipher	av.l	117	33-144			
2,4,6-Tribromophenol		24-152				p-Terphenyl-d1	CO.	114	23-160			
2,4,0-moromophenor	75	24-152				b- Leibileithi-g.	ia.	114	20-100			

RI - Reporting Limit

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation:

01/25/02 02-01-1088 **EPA 3545**

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number	10-40-30-00-			Sampl mber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Bato	th ID
SB-4-15			02-0	11-108	8-13	01/25/02	Solid	01/25/02	01/27/02	02	0125	7
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF 9	Qual	Units
N-Nitrosodimethylamine	ND.	0.50	1		mg/kg	2,4-Dinitropheno	1	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/k
Bis(2-Chloroethyl) Ether	ND	2.5	*		mg/kg	2,4-Dinitrotoluen	e	ND	0.50	1		mg/k
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluen		ND	0.50	1		mg/k
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate		ND	0.50	4		mg/k
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-f			0.50	4		mg/k
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	nonyi Edioi	ND	0.40	4		mg/k
1,2-Dichlorobenzene	ND	0.50	4		mg/kg	4-Nitroaniline		ND	0.50	4		mg/k
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	4		mg/k
3is(2-Chloroisopropyl) Ether	ND	0.50			mg/kg	4,6-Dinitro-2-Met	hylphenol	ND	2.5	4		mg/k
3/4-Methylphenol	ND	0.50	4		mg/kg	N-Nitrosodiphen		ND	0.50	1		mg/k
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloroph		ND	0.50	4		mg/k
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-l			0.50	4		mg/k
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenze	and the second second	ND	0.50			mg/k
sophorone	ND	0.50	1		mg/kg	Pentachloropher		ND	2.5	4		mg/k
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	101	ND	0.40	4		mg/k
2,4-Dimethylphenal	ND	0.50	1			Anthracene		ND	0.40	4		mg/k
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phtha	leta	ND	0.50	4		mg/k
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	late	ND	0.40			
	ND	0.50			mg/kg	Benzidine				-		mg/k
2,4-Dichlorophenol		248.34	1		mg/kg	Control of the Contro		ND	10	1		mg/k
1,2,4-Trichlorobenzene	ND	0.50	- 3		mg/kg	Pyrene		ND	0.40	1		mg/k
Naphthalene	ND	0.40	1		mg/kg	Pyridine	value.	ND	0.50	1		mg/k
4-Chloroeniline	ND	0.50	1		mg/kg	Butyl Benzyl Pht		ND	0.50	1		mg/k
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichloroben		ND	0.50	1		mg/k
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthra		ND	0.40	1		mg/k
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexy)) Phthalate	ND	0.50	1		mg/k
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene		ND	0.40	1		mg/k
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phtha		ND	0.50	1		mg/k
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluora		ND	0.40	1		mg/k
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluora		ND	0.40	1		mg/k
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyren		ND	0.35	1		mg/k
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,0	Carlo	ND	0.40	1		mg/k
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ant		ND	0.40	1		mg/k
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Pe	rylene	ND	0.40	1		mg/k
Acenaphthene	ND	0.40	1		mg/kg							
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	87	31-142				Phenol-d6		98	30-136			
vitrobenzene-d5	105	28-139				2-Fluorobipheny	1	106	33-144			
2,4,6-Tribromophenol	68	24-152				p-Terphenyl-d14		106	23-160			



DF - Dilution Factor .

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/25/02 02-01-1088 EPA 3545

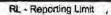
Method:

EPA 8270C

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Ult RL 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Parameter 2,4-Dinitrophenol 4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene 2,6-Dinitrotoluene Diethyl Phthalate 4-Chlorophenyl-Phenyl Fluorene	Result ND ND ND ND ND ND ND ND ND	RL 2.5 0.50 0.50 0.50 0.50 0.50	020120 DF Qual 1 1 1 1 1	
0.50 0.50 0.50 2.5 0.50 0.50 0.50 0.50 0	1 1 1 1		mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2,4-Dinitrophenol 4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene 2,6-Dinitrotoluene Diethyl Phthalate 4-Chlorophenyl-Phenyl	ND ND ND ND ND	2.5 0.50 0.50 0.50 0.50 0.50	1 1 1	mg/kg mg/kg mg/kg mg/kg mg/kg
0.50 0.50 2.5 0.50 0.50 0.50 0.50 0.50 0	1		mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene 2,6-Dinitrotoluene Diethyl Phthalate 4-Chlorophenyl-Phenyl	ND ND ND ND	0.50 0.50 0.50 0.50 0.50	1 1 1 1	mg/kg mg/kg mg/kg mg/kg
0.50 0.50 2.5 0.50 0.50 0.50 0.50 0.50 0	1		mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene 2,6-Dinitrotoluene Diethyl Phthalate 4-Chlorophenyl-Phenyl	ND ND ND ND	0.50 0.50 0.50 0.50	1 1 1	mg/kg mg/kg mg/kg mg/kg
0.50 2.5 0.50 0.50 0.50 0.50 0.50 0.50 0	1		mg/kg mg/kg mg/kg mg/kg mg/kg	2,4-Dinitrotoluene 2,6-Dinitrotoluene Diethyl Phthalate 4-Chlorophenyl-Phenyl	ND ND ND	0.50 0.50 0.50	1 1 1	mg/kg mg/kg mg/kg
2.5 0.50 0.50 0.50 0.50 0.50 0.50 0.50	1		mg/kg mg/kg mg/kg mg/kg mg/kg	2,6-Dinilrotoluene Diethyl Phthalate 4-Chlorophenyl-Phenyl	ND ND ND	0.50 0.50	1	mg/kg
0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50			mg/kg mg/kg mg/kg mg/kg	2,6-Dinilrotoluene Diethyl Phthalate 4-Chlorophenyl-Phenyl	ND ND	0.50	1	mg/kg
0.50 0.50 0.50 0.50 0.50 0.50 0.50	1 1 1		mg/kg mg/kg mg/kg	Diethyl Phthalate 4-Chlorophenyl-Phenyl	ND	E 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1	Luce, our
0.50 0.50 0.50 0.50 0.50 0.50	1 1		mg/kg mg/kg	4-Chlorophenyl-Phenyl		E 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
0.50 0.50 0.50 0.50 0.50 0.50	1		mg/kg			0.50	1	mg/kg
0.50 0.50 0.50 0.50 0.50	1				ND	0.40	1	mg/kg
0.50 0.50 0.50 0.50	1		mg/kg	4-Nitroaniline	ND	0.50	1	mg/kg
0.50 0.50 0.50	1		mg/kg	Azobenzene	ND	0.50	1	mg/kg
0.50 0.50			mg/kg	4,6-Dinitro-2-Methylphe		2.5	1	mg/kg
0.50	1		mg/kg	N-Nitrosodiphenylamine		0.50	1	mg/kg
	1		mg/kg	2,4,6-Trichlorophenol	ND	0.50	1	mg/kg
	1		mg/kg	4-Bromophenyl-Phenyl		0.50	1	mg/kg
2.5	1		mg/kg	Hexachlorobenzene	ND	0.50	1	mg/kg
0.50	1		mg/kg	Pentachlorophenol	ND	2.5	1	mg/kg
0.50			mg/kg	Phenanthrene	ND	0.40	1	mg/kg
0.50			mg/kg	Anthracene	ND	0.40	1	mg/k
2.5	1		mg/kg	Di-n-Butyl Phthalate	ND	0.50	1	mg/kg
0.50	- 1		mg/kg	Fluoranthene	ND	0.40	1	mg/k
0.50			mg/kg	Benzidine	ND	10	4	mg/kg
0.50			mg/kg	Pyrene	ND	0.40	1	mg/kg
0.40			mg/kg	Pyridine	ND	0.50	1	mg/kg
0.50			mg/kg	Butyl Benzyl Phthalate	ND	0.50	1	mg/k
0.50		Į.	mg/kg	3,3'-Dichlorobenzidine	ND	0.50	1	mg/kg
0.50			mg/kg	Benzo (a) Anthracene	ND	0.40	1	mg/k
0.40			mg/kg	Bis(2-Ethylhexyl) Phtha		0.50	1	mg/kg
0.40			mg/kg	Chrysene	ND	0.40	1	mg/kg
1.5	1		mg/kg	Di-n-Octyl Phthalate	ND	0.50	1	mg/k
0.50		N.	mg/kg	Benzo (k) Fluoranthene	and the second second	0.40	1	mg/kg
								mg/k
								mg/k
						DOM:	1	mg/k
							1	mg/k
					9.7		1.0	mg/k
				- Thirth the Alberta		2014	4	19
(%) Contro	d			Surrogates:	REC (%)		Qua	1
				Phenol-d6	92			
	0.50 0.50 0.40 0.50 0.40 (%) Control Limits 31-14 28-13	0.50 0.50 0.40 0.50 0.40	0.50 1 0.50 1 0.40 1 0.50 1 0.40 1 0.40 1 (%) Control Qualities 31-142 28-139	0.50 1 mg/kg 0.50 1 mg/kg 0.40 1 mg/kg 0.50 1 mg/kg 0.50 1 mg/kg 0.40 1 mg/kg (%) Control Qual Limits 31-142 28-139	0.50 1 mg/kg Benzo (a) Pyrene 0.50 1 mg/kg Indeno (1,2,3-c,d) Pyre 0.40 1 mg/kg Dibenz (a,h) Anthracen 0.50 1 mg/kg Benzo (g,h,i) Perylene 0.40 1 mg/kg (%) Control Qual Surrogates: Limits 31-142 Phenol-d6 28-139 2-Fluorobiphenyl	0.50 1 mg/kg Benzo (a) Pyrene ND 0.50 1 mg/kg Indeno (1,2,3-c,d) Pyrene ND 0.40 1 mg/kg Dibenz (a,h) Anthracene ND 0.50 1 mg/kg Benzo (g,h,i) Perylene ND 0.40 1 mg/kg (%) Control Qual Surrogates: REC (%) Limits 31-142 Phenol-d6 92 28-139 2-Fluorobiphenyl 102	0.50 1 mg/kg Benzo (a) Pyrene ND 0.35 0.50 1 mg/kg Indeno (1,2,3-c,d) Pyrene ND 0.40 0.40 1 mg/kg Dibenz (a,h) Anthracene ND 0.40 0.50 1 mg/kg Benzo (g,h,i) Perylene ND 0.40 0.40 1 mg/kg (%) Control Qual Surrogates: REC (%) Control Limits 31-142 Phenol-d6 92 30-136 28-139 2-Fluorobiphenyl 102 33-144	0.50 1 mg/kg Benzo (a) Pyrene ND 0.35 1 0.50 1 mg/kg Indeno (1,2,3-c,d) Pyrene ND 0.40 1 0.40 1 mg/kg Dibenz (a,h) Anthracene ND 0.40 1 0.50 1 mg/kg Benzo (g,h,i) Perylene ND 0.40 1 0.40 1 mg/kg (%) Control Qual Surrogates: REC (%) Control Limits 31-142 Phenol-d6 92 30-136 28-139 2-Fluorobiphenyl 102 33-144



OF - Dilution Factor ,

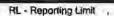
ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/25/02 02-01-1088 EPA 3545 EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	h ID
SB-23-7			02-	01-108	8-22	01/25/02	Solid	01/25/02	01/28/02	0	20125	7
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	iol	ND	2.5	4		mg/k
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/k
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND.	0.50	1		mg/k
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/k
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	0.00	ND	0.50	1		mg/k
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/k
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1		mg/k
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/k
1,2-Dichlorobenzene	ND	0.50	4		mg/kg	4-Nitroaniline		ND	0.50	1		mg/k
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/k
Ris(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	4		mg/k
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/k
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1		mg/k
Hexachloroethane	ND	0.50	4		mg/kg	4-Bromopheny			0.50	1		mg/k
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/k
sophorone	ND	0.50	1		mg/kg	Pentachlorophe	3147744	ND	2.5	1		mg/k
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/k
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/k
Benzoic Acid	ND	2.5	4		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	4		mg/k
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/k
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/k
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/k
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/k
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pl	hthalate	ND	0.50	1		mg/k
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/k
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/k
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex		ND	0.50	1		mg/k
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	, , , , , , , , , , , , , , , , , , ,	ND	0.40	1		mg/k
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	nalate	ND	0.50	1		mg/k
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1		mg/k
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/k
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/k
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/k
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A		ND	0.40	1		mg/k
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1		mg/k
Acenaphthene	ND	0.40	1		mg/kg	and the state of t	- 14 CT 115		7.50			
Surrogates:	REC (%)	Control	-	Qua	1111	Surrogates:		REC (%)	Control	ψĪ	Qual	
2-Fluorophenol	82	31-142				Phenol-d6		94	30-136			
Vitrobenzene-d5	102	28-139				2-Fluorobipher	IVI	104	33-144			
2,4,6-Tribromophenol	64	24-152				p-Terphenyl-d1		98	23-160			



DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

Method:

02-01-1088 EPA 3545 EPA 8270C

01/25/02

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	ch ID
\$8-5-5			02-	01-108	8-25	01/25/02	Solid	01/25/02	01/28/02	0	20125	7
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	<u>DF</u>	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropheno	1	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	,	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2,5	1		mg/kg	2,4-Dinitrotoluen	е	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotoluen		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalate		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-			0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	2327.45.320.020	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
3is(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	thylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphen		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloroph		ND	0.50	1		mg/kg
lexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-			0.50	1		mg/kg
Vitrobenzene	ND	2.5	1		mg/kg	Hexachlorobenz		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe	F.1.870	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phtha	late	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichtorobenzane	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Phi	halate	ND	0.50	4		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichloroben		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthra		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexyl		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	/ I minutes	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phtha	data	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluora		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	4		mg/kg	Benzo (b) Fluora		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	-		mg/kg	Benzo (a) Pyren		ND	0.35	4		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c,		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) An		ND	0.40	,		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) Pe		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	Delizo (Biril) Fe	Tierre	110	0.40	4		myrng
Surrogates:	REC (%)	Control		Qua		Surrogates:		REC (%)	Control		Qual	
2. Eluoranhanal	90	Limits				Phenol-d6		100	Limits			
2-Fluorophenol	88	31-142						102	30-136			
Vitrobenzene-d5	107	28-139				2-Fluorobipheny		110	33-144			
2,4,6-Tribromophenol	70	24-152				p-Terphenyl-d14		104	23-160			

RL - Reporting Limit

DF - Dilution Factor

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/25/02 02-01-1088 EPA 3545

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Batch ID
SB-5-10			02-	01-108	8-26	01/25/02	Solid	01/25/02	01/28/02	020	1257
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Q	ual Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1	mg/k
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1	mg/k
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/k
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1	mg/k
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1	mg/k
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalat		ND	0.50	1	mg/k
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-		ND	0.50	1	mg/k
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	, many - may	ND	0.40	1	mg/k
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1	mg/k
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/k
Ris(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	thylohenol	ND	2.5	1	mg/k
/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodipher		ND	0.50	1	mg/k
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1	mg/k
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl-			0.50	1	mg/k
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorobena	The state of the s	ND	0.50	1	mg/k
sophorone	ND	0.50	1		mg/kg	Pentachlorophe	77.7	ND	2.5	4	mg/k
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	1101	ND	0.40	1	mg/k
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1	mg/k
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phtha	alate	ND	0.50	4	mg/k
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	aidte	ND	0.40	1	mg/k
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1	mg/k
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1	mg/k
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1	mg/k
4-Chloroanlline	ND	0.50	1		mg/kg	Butyl Benzyl Ph	thalate	ND	0.50	1	mg/k
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorober		ND	0.50	1	mg/k
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthi		ND	0.40	1	mg/k
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexy		ND	0.50	1	mg/k
1-Methylnaphthalene	ND	0,40	1		mg/kg	Chrysene	d) i minorota	NO	0.40	1	mg/k
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1	mg/k
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1	mg/k
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluor		ND	0.40	1	mg/k
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyrei		ND	0.35	1	mg/k
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1	mg/k
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) An	Control of the Contro	ND	0.40	1	mg/k
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g.h.l) Pe		ND	0.40	1	mg/k
Acenaphthene	ND	0.40	1		mg/kg	Source (Stuti) L.	ar yrights	110	0.40	7	iligin
Surrogates:	REC (%)	Control Limits		Qua	1000	Surrogates:		REC (%)	Control Limits	<u>c</u>	lual
2-Fluorophenol	82	31-142				Phenol-d6		93	30-136		
litrobenzene-d5	101	28-139				2-Fluorobiphen	ai.	104	33-144		
2,4,6-Tribromophenol	63	24-152						2.75			
2,4,0-1 horomophenui	us	24-132				p-Terphenyl-d1	•	98	23-160		

RL - Reporting Limit

DF - Dilution Factor .

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/25/02 02-01-1088 EPA 3545

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
SB-5-15			02-	01-108	18-27	01/25/02	Solid	01/25/02	01/28/02	0	20125	7
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DE	Qual	Units
N-Nitrosodimethylamine	ND	0,50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Anlline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	4		mg/kg	Dibenzofuran		ND	0.50	1		mg/k
Bis(2-Chloroethyt) Ether	ND	2.5	1		mg/kg	2.4-Dinitrotolue	ne	ND	0.50	1		mg/k
2-Chlorophenol	ND	0.50	4		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/k
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalal		ND	0.50	1		mg/k
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-			0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	, narry Euro	ND	0.40	1		mg/k
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/k
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/k
Tis(2-Chlorolsopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	thylohenol	ND	2.5	1		mg/k
J/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodipher		ND	0.50	1		mg/k
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/k
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	1		mg/k
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/k
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/k
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	aioi	ND	0.40	1		mg/k
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/k
Benzolc Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alata	ND	0.50	1		mg/k
Bis(2-Chloroethoxy) Methane	ND	0.50	1			Fluoranthene	alate	ND	0.40	1		mg/k
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/k
			10.70		mg/kg	7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		200	0.40	1		
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND		1		mg/k
Naphthalene 4-Chloroaniline	ND	0.40	1		mg/kg	Pyridine	Malat-	ND	0.50			mg/k
	ND	0.50	1		mg/kg	Butyl Benzyl Ph		ND	0.50	1		mg/k
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/k
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthi		ND	0.40	1		mg/k
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexy	n) Prinalate	ND	0.50	1		mg/k
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	OCAS-	ND	0.40	1		mg/k
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth		ND	0.50	1		mg/k
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/k
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluor		ND	0.40	1		mg/k
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0,35	1		mg/k
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c	The second second	ND	0.40	1		mg/k
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/k
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1		mg/k
Acenaphthene	ND	0.40	1		mg/kg							
Surrogates:	REC (%)	Control		Qua	1	Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	во	31-142				Phenol-d6		93	30-136			
litrobenzene-d5	99	28-139				2-Fluorobiphen	yl	103	33-144			
2,4,6-Tribromophenol	63	24-152				p-Terphenyl-d1	•	96	23-160			

RL - Reporting Limit ,

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation:

02-01-1088 EPA 3545

01/25/02

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	ch ID
SB-27-2			024	01-108	18-30	01/25/02	Solid	01/25/02	01/28/02	0	20125	7
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DE	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Anlline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
1is(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
J/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	4		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	21101	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	niato	ND	0.50	4		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	alato	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		nig/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pr	atholote	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1			Benzo (a) Anth		ND	0.40	1		
	ND	0.40	4		mg/kg			ND	0.40	1		mg/kg
2-Methylnaphthalene 1-Methylnaphthalene	ND	0.40	4		mg/kg	Bis(2-Ethylhex) Chrysene	y) Fillialate	ND	0.40	4		mg/kg
Hexachlorocyclopentadiene	ND	1.5	4		mg/kg mg/kg	Di-n-Octyl Phth	plata	ND	0.50			mg/kg mg/kg
2,4,5-Trichlorophenol	ND	0.50						ND	0.40	-		
			1		mg/kg	Benzo (k) Fluor		ND	0.40	- 1		mg/kg
2-Chloronaphthalene 2-Nitroaniline	ND ND	0.50	-		mg/kg	Benzo (b) Fluo			0.40	1		mg/kg
		0.50	4		mg/kg	Benzo (a) Pyre		ND		4		mg/kg
Dimethyl Phthalate Acenaphthylene	ND ND	0.50	3		mg/kg	Indeno (1,2,3-c	The state of the s	ND ND	0.40	1		mg/kg
3-Nitroaniline		18 - 55	1		mg/kg	Dibenz (a,h) Ar				1		mg/kg
	ND	0.50			mg/kg	Benzo (g,h,l) P	erylene	ND	0.40	4		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	14 34 34		San Tar	40000		4.	
Surrogates:	REC (%)	<u>Control</u> <u>Limits</u>		Qua		Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	78	31-142				Phenol-d6		91	30-136			
litrobenzene-d5	96	28-139				2-Fluorobiphen	iyl.	100	33-144			
2,4,6-Tribromophenol	62	24-152				p-Terphenyl-d1	4	94	23-160			



DF - Dilution Factor .

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

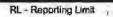
Method:

01/25/02 02-01-1088 EPA 3545 EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl mber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Bato	h ID
\$B-27-5			02-0	1-108	8-31	01/25/02	Solid	01/25/02	01/28/02	02	0125	7
Parameter	Result	RL	<u>DF</u>	Qual	Units	Parameter		Result	RL	DF 9	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	7.	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenot	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/k
1.3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalai	8.00	ND	0.50	1		mg/k
1,4-Dichlorobenzene	ND	0,50	1		mg/kg	4-Chlorophenyl-			0.50	1		mg/k
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	i trangi mina	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenoi	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Ris(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	ethylphenol	ND	2.5	1		mg/k
/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodipher		ND	0.50	- 1		mg/k
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/k
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	1		mg/k
Vitrobenzene	ND	2.5			mg/kg	Hexachloroben		ND	0.50	4		mg/k
sophorone	ND	0.50	1		mg/kg	Pentachlorophe	THE PARTY OF THE P	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/k
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/k
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/k
Bis(2-Chloroethoxy) Methane	ND	0.50	- 1		mg/kg	Fluoranthene	Bioto	ND	0.40	1		mg/k
2,4-Dichlorophenol	ND	0.50	4		mg/kg	Benzidine		ND	10	4		mg/k
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/k
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	*		mg/k
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Ph	sthalate	ND	0.50	1		mg/k
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/k
4-Chloro-3-Methylphenol	ND	0.50	4		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/k
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)		ND	0.50	4		mg/k
1-Methylnaphthalene	ND	0.40	4		mg/kg	Chrysene	n) r missate	ND	0.40	4		mg/k
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/k
2,4,5-Trichlorophenol	ND	0.50	4		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/k
2-Chloronaphthalene	ND	0.50	4		mg/kg	Benzo (b) Fluor		ND	0.40	1		mg/k
2-Onioronaphinalene 2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.40	1		mg/k
Dimethyl Phthalate	ND	0.50	4		11.00	Indeno (1,2,3-c		ND	0.40	1		
Acenaphthylene	ND	0.40	4		mg/kg			ND	0.40	7		mg/k mg/k
Acenaphinylene 3-Nitroanlline		100000000000000000000000000000000000000	4		mg/kg	Dibenz (a,h) Ar		ND	0.40	1		
Acenaphthene	ND ND	0.50	1		mg/kg mg/kg	Benzo (g,h,i) P	erylene	NO	0.40	1		mg/k
			1			Constitution of the same		DEC (01)			0	
Surrogates:	REC (%)	<u>Control</u> <u>Limits</u>		Qual		Surrogates:		REC (%)	<u>Control</u> <u>Limits</u>	-	Qual	
2-Fluorophenol	85	31-142				Phenol-d6		103	30-136			
litrobenzene-d5	106	28-139				2-Fluorobiphen	yt	105	33-144			
2,4,6-Tribromophenol	76	24-152				p-Terphenyl-d1		98	23-160			



DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/25/02 02-01-1088 EPA 3545

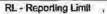
Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	ch ID
SB-27-10			024	01-108	8-32	01/25/02	Solid	01/25/02	01/28/02	0	20125	7
Parameter	Result	RL	<u>DF</u>	Qual	Units	Parameter		Result	RL	DE	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	lo	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	1003312031	ND	0.40	-1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0,50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Ris(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylpnenol	ND	2.5	1		mg/kg
/4-Methylphenol	ND	0.50	4		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop	7.	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	1		mg/kg
Vitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0,50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	31701	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyi Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	- 1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pl	hthalate	ND	0.50	- 1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	- 1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	,,, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	4		mg/kg	Di-n-Octyl Phili	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	4		mg/kg	Benzo (k) Fluo		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A	and the second second	ND	0.40	3		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	Taliff L		11.0	W. 40			mg/ng
Surrogates:	REC (%)	Control Limits		Qua		Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	83	31-142				Phenol-d6		100	30-136			
litrobenzene-d5	104	28-139				2-Fluorobipher	nyl	107	33-144			
2,4,6-Tribromophenol	77	24-152				p-Terphenyl-d1		101	23-160			



DF - Dilution Factor

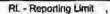
ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/25/02 02-01-1088 EPA 3545 EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				iample nber	Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Batch ID
SB-32-5			02-0	1-1088-34	01/25/02	Solid	01/25/02	01/28/02	020	11257
Parameter	Result	RL	DE !	Qual Uni	ts <u>Parameter</u>		Result	RL	DF C	lual Units
N-Nitrosodimethylamine	ND	0.50	1	mg/l	g 2,4-Dinitrophe	nol	ND	2.5	1	mg/k
Aniline	ND	0.50	1	mg/l			ND	0.50	1	mg/k
Phenol	ND	0.50	1	mg/l			ND	0.50	3	mg/k
Bis(2-Chloroethyl) Ether	ND	2.5	1	mg/		ene	ND	0.50	1	mg/k
2-Chlorophenol	ND	0.50	1	mg/l		ene	ND	0.50	1	mg/k
,3-Dichlorobenzene	ND	0.50	1	mg/			ND	0.50	7	mg/k
,4-Dichlorobenzene	ND	0.50	1	mg/				0.50	1	mg/k
Benzyl Alcohol	ND	0.50	1	mg/			ND	0.40	1	mg/k
1,2-Dichlorobenzene	ND	0.50	1	mg/			ND	0.50	1	mg/k
2-Methylphenol	ND	0.50	1	mg/	A CONTRACTOR OF THE PARTY OF TH		ND	0.50	1	mg/k
is(2-Chloroisopropyl) Ether	ND	0.50	1	mg/		dethylphenol	ND	2.5	1	mg/k
/4-Methylphenol	ND	0.50	1	mg/			ND	0.50	1	mg/k
N-Nitroso-di-n-propylamine	ND	0.50	1	mg/			ND	0.50	1	mg/k
dexachloroethane	ND	0.50	1	mg/		yl-Phenyl Ether		0.50	1	mg/k
Nitrobenzene	ND	2.5	- 1	mg/			ND	0.50	1	mg/k
sophorone	ND	0.50	1	mg/			ND	2.5	1	mg/k
2-Nitrophenol	ND	0.50	1	mg/			ND	0.40	1	mg/k
2,4-Dimethylphenol	ND	0.50	1	mg/			ND	0.40	1	mg/k
Benzoic Acid	ND	2.5	1	rng/		halate	ND	0.50	1	mg/k
Bis(2-Chloroethoxy) Methane	ND	0.50	1	mg/	The state of the s	, idiolo	ND	0.40	4	mg/k
2,4-Dichlorophenol	ND	0.50	4	mg/			ND	10	1	mg/k
1,2,4-Trichlorobenzene	ND	0.50	1	mg/			ND	0.40	1	mg/k
Naphthalene	ND	0.40	1	mg/			ND	0.50	1	mg/k
4-Chloroaniline	ND	0.50	1	mg/		Phihalale	ND	0.50	1	mg/k
Hexachloro-1,3-Butadiene	ND	0.50	4	mg/			ND	0.50	1	mg/k
4-Chloro-3-Methylphenol	ND	0.50	1	mg/			ND	0.40	1	mg/k
2-Methylnaphthalene	ND	0.40	4	mg/			ND	0.50	1	mg/k
1-Methylnaphthalene	ND	0.40	1	mg/		Att Limidians	ND	0.40	1	mg/k
Hexachlorocyclopentadiene	ND	1.5	4	mg/		halate	ND	0.50	1	mg/k
2,4,5-Trichlorophenol	ND	0,50	1	mg/			ND	0.40	1	mg/k
2-Chloronaphthalene	ND	0.50	1	mg/			ND	0.40	1	mg/k
2-Nitroaniline	ND	0.50	4	mg/			ND	0.35	4	mg/l
Dimethyl Phthalate	ND	0.50	4	mg/	All and the second seco		ND	0.40	4	mg/l
Acenaphthylene	ND	0.40	1	mg/			ND	0.40	1	mg/l
3-Nitroanillne	ND	0.40	1	mg/			ND	0.40	1	mg/l
Acenaphthene	NO	0.40	1	mg/		rei yierie	IND	0.40		mg/r
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:		REC (%)	Control Limits	. 2	Qual
2-Fluorophenol	78	31-142			Phenol-d6		93	30-136		
litrobenzene-d5	100	28-139			2-Fluorobiphe	nyl	98	33-144		
4,4,6-Tribromophenol	65	24-152			p-Terphenyl-d		93	23-160		



DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

Method:

01/25/02 02-01-1088 EPA 3545 EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bate	ch ID
SB-32-5 DUP			024	01-108	18-35	01/25/02	Solid	01/25/02	01/28/02	0	20125	7
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	4		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Ris(2-Chlorolsopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	ethylphenol	ND	2.5	1		mg/kg
/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodipher	A CONTRACTOR OF A CONTRACTOR O	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop	The second second	ND	0.50	1		mg/kg
lexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	1		mg/kg
Vitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe	Section 1	ND	2.5	1		mg/kg
-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	GILLO.	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	4		mg/kg	Benzidine		ND	to	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	- 1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pt	thalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	- 1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)		ND	0.50	1		mg/kg
I-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	i) i ililiaiaio	ND	0.40	3		mg/kg
dexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	atelo	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluor		ND	0.40	-		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	3		mg/kg
Dirnethyl Phthalate	ND	0.50	4		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/kg
3-Nitroaniline	NO	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	Delizo (giril) F	er yrene	MD	U.4U			myrki
Surrogates:	REC (%)	Control		Qua	1101110	Surrogates:		REC (%)	Control		Qual	
Thomasana	90	Limits				Dhanel do		ne	Limits 20,136			
2-Fluorophenol	80	31-142				Phenol-d6	.4	96	30-136			
Vitrobenzene-d5	103	28-139				2-Fluorobiphen		103	33-144			
2,4,6-Tribromophenol	70	24-152				p-Terphenyl-d1	4	102	23-160			

RL - Reporting Limit

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/25/02 02-01-1088 EPA 3545 EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Ba	tch ID
SB-32-10		-	02-	01-108	8-36	01/25/02	Solid	01/25/02	01/28/02	02010	1254
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qua	<u>Units</u>
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1	mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	-,	ND	0.50	1	mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1	mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl			0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	-i nenyi Culoi	ND	0.40	1	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	4		mg/kg	Azobenzene		ND	0.50	1	mg/kg
Nis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	sthylphonol	ND	2.5	7	mg/kg
/4-Methylphenol	ND	0.50	4		mg/kg	N-Nitrosodiphe		ND	0.50	1	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	4			2,4,6-Trichlorop		ND	0.50	1	mg/kg
Hexachloroethane	ND		1		mg/kg				0.50	1	mg/kg
and the second second		0.50	- 3		mg/kg	4-Bromophenyl Hexachlorobera	and the second s	ND	0.50	1	
Nitrobenzene	ND	2.5	1		mg/kg	A decision of the second second	7.0				mg/kg
Isophorone	ND	0.50	1		rng/kg	Pentachlorophe	anoi	ND	2.5	1	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene	14.12m	ND	0.40	1	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	- 1		mg/kg	Fluoranthene		ND	0.40	1	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1	mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine	De 2.00	ND	0.50	1	mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pi		ND	0.50	1	mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe	Jean-Spirite Company	ND	0.50	1	mg/kg
4-Chloro-3-Methylphenal	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)	(I) Phthalate	ND	0.50	1	mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene		ND	0.40	1	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth		ND	0.50	1	mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c	d) Pyrene	ND	0.40	1	mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar	nthracene	ND	0.40	1	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1	mg/kg
Acenaphthene	ND	0.40	1		mg/kg	a transfer att	147				
Surrogates:	REC (%)	Control Limits		Qua	1	Surrogates:		REC (%)	Control Limits	Qu	al
2-Fluorophenol	75	31-142				Phenol-d6		91	30-136		
litrobenzene-d5	97	28-139				2-Fluorobiphen	W	93	33-144		
2,4,6-Tribromophenol	66	24-152				p-Terphenyl-d1		96	23-160		

RL - Reporting Limit ,

DF - Dilution Factor

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/25/02 02-01-1088 EPA 3545

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC B	atch ID
S8-32-10 DUP	J. Davidson		024	01-108	18-37	01/25/02	Solid	01/25/02	01/28/02	0201	01254
Parameter	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF Qu	el Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	loi	ND	2.5	1	mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1	mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	042	ND	0.50	1	mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/kg
Ris(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1	mg/kg
J/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop	Contract of the contract of th	ND	0.50	1	mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	1	mg/kg
Nitrobenzene	ND	2.5	4		rng/kg	Hexachloroben		ND	0.50	4	mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1	mg/kg
2-Nitrophenol	ND	0.50	4		mg/kg	Phenanthrene	arror.	ND	0.40	4	mg/kg
2,4-Dimethylphenol	ND	0.50	4		mg/kg	Anthracene		ND	0.40	1	mg/kg
Benzolc Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alata	ND	0.50	1	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	bjato	ND	0.40	1	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	*	mg/kg
1,2,4-Trichlorobenzene	ND	0.50	4		mg/kg	Pyrene		ND	0.40	4	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1	mg/kg
4-Chloroaniline	ND	0.50	4		mg/kg	Butyl Benzyl Pl	hibalata	ND	0.50	4	mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	4		mg/kg	3,3'-Dichlorobe		ND	0.50	4	mg/kg
4-Chloro-3-Methylphenol	ND	0.50	4		The second second	Benzo (a) Anth		ND	0.40	1	
	ND	0.40	-		mg/kg		19 10 - 18 Thinks	ND	0.50	1	mg/kg
2-Methylnaphthalene 1-Methylnaphthalene		0.40	4		mg/kg	Bis(2-Ethylhex)	yi) Pilinalate	ND	0.40		mg/kg
	ND ND	1.5	4		mg/kg	Chrysene Di-n-Octyl Phth	selata	ND	0.40	1	rng/kg
Hexachlorocyclopentadiene		0.50	1		mg/kg			ND	0.40	1	rng/kg
2,4,5-Trichlorophenol	ND		1		mg/kg	Benzo (k) Fluo Benzo (b) Fluo			5.00%	4	mg/kg
2-Chloronaphthalene 2-Nitroaniline	ND	0.50	1		mg/kg mg/kg	The Late of the State of the Control of the State of the		ND	0.40		mg/k
	ND		1			Benzo (a) Pyre		ND		1	mg/k
Dimethyl Phthalate	ND	0.50	3		mg/kg	Indeno (1,2,3-c	TO SECURE A SECURE ASSESSMENT OF THE PERSON	ND	0.40	1	mg/kg
Acenaphthylene	ND		1		mg/kg	Dibenz (a,h) A		ND		4	mg/k
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1	mg/k
Acenaphthene	ND	0.40	1		mg/kg	ALAST CARRY		Distriction 1	100	-	4
Surrogates:	REC (%)	Control Limits		Qua	1	Surrogates:		REC (%)	<u>Control</u> <u>Limits</u>	Qu	ial .
2-Fluorophenol	96	31-142				Phenol-d6		99	30-136		
litrobenzene-d5	91	28-139				2-Fluorobipher	nyl	93	33-144		
2,4,6-Tribromophenol	94	24-152				p-Terphenyl-d1	14	98	23-160		

RL - Reporting Limit .

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation:

01/25/02 02-01-1088 EPA 3545

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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				Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bate	ch ID
SE-32-15			024	01-108	8-38	01/25/02	Solid	01/25/02	01/28/02	0	20101	254
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	<u>DF</u>	Qual	<u>Units</u>
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	2.7	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalal		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-			0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	. 31-19 11.5	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
3is(2-Chloroisopropyl) Ether	ND	0.50	- 1		mg/kg	4,6-Dinitro-2-Me	ethylphenol	ND	2.5	1		mg/kg
/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodipher		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND.	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/kg
-fexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben	Commence of the second of the	ND	0.50	1		mg/k
sophorone	ND	0.50	4		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	,,,,,,	ND	0.40	1		mg/k
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/k
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	Giato	ND	0.40	1		mg/k
2,4-Dichlarophenol	ND	0.50	4		mg/kg	Benzidine		ND	10	4		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	4		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Ph	nthalate	ND	0.50	1		mg/kg
Hexachioro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexy		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	7	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	4		mg/kg	Benzo (b) Fluor		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/k
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/k
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/k
3-Nilroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1		mg/k
Acenaphthene	ND	0.40	1		mg/kg	Series (Shill)		11,12	0.40	,		in Buch
Surrogates:	REC (%)	Control Limits		Qua		Surrogates:		REC (%)	Control		Qual	
2-Fluoraphenal	88	31-142				Phenol-d6		88	30-136			
Iltrobenzene-d5	84	28-139				2-Fluorobiphen	wi	87	33-144			
2,4,6-Tribromophenol	76	24-152				p-Terphenyl-d1		92	23-160			

RL - Reporting Limit ,

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/25/02 02-01-1088 EPA 3545 EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Bato	h ID
SB-32-15 DUP			02-	01-108	8-39	01/25/02	Solid	01/25/02	01/28/02	02	0101	254
Parameter	Result	RL	<u>DF</u>	Qual	Units	Parameter		Result	RL	DF (Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	Gr.	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzoluran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenal	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl			0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
is(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylohenol	ND	2.5	1		mg/kg
/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop	A COUNTY OF THE PARTY OF THE PA	ND	0.50	1		mg/kg
-lexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	ino,	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	4		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	4		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	4		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pl	nthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3.3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	4		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	NO	0.40	1		mg/kg	Bis(2-Ethylhex)		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	4		mg/kg	Chrysene	ry i innonzio	ND	0.40	1		mg/kg
Hexachlorocyclopenladiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	4		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-0		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,l) P		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	Contro (girli)	o, j.uno	1.0	0,70			in Shut
Surrogates:	REC (%)	Control Limits		Qua		Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	91	31-142				Phenol-d6		91	30-136			
2-Fluorophenoi litrobenzene-d5	85	28-139				2-Fluorobiphen	r.d	91	33-144			
	84	24-152				p-Terphenyl-d1	7.00	94	23-160			
∠,4,6-Tribromophenol	04	24-132				p- respirence i	4	34	23-100			

RL - Reporting Limit ,

DF - Dilution Factor .

Qual - Qualifiers

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Lalscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/25/02 02-01-1088 EPA 3545

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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lient Sample Number				Samplumber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
SB-33-5			024	01-108	8-40	01/25/02	Solid	01/25/02	01/28/02	07	20101	254
Parameter	Result	RL	<u>DF</u>	Qual	Units	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Anlline	ND	0.50	1		mg/kg	4-Nitrophenol	0	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
.3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.58	1		mg/kg	Fluorene	. mong. —mon	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
is(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	ethylphenol	ND	2.5	1		mg/kg
/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodipher		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/kg
-lexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0,50	1		mg/kg	Phenanthrene	31151	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzolc Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	elate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	Lidio	ND	0.40	4		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Ph	nthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	-		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)		ND	0.50	4		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	//) I Mulaiale	ND	0.40	4		mg/kg
Hexachlorocyclopentadiene	NO	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluor		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	Solico (g,iii) F	or yield	110	0.40			in Bird
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	78	31-142				Phenol-d6		81	30-136			
litrobenzene-d5	75	28-139				2-Fluorobiphen	not:	76	33-144			
4,4,6-Tribromophenol	73	24-152				p-Terphenyl-d1		72	23-160			

RL - Reporting Limit

DF - Dilution Factor ,

Calscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

Method:

01/25/02 02-01-1088 EPA 3545

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl mber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bat	ch ID
SB-33-10		101	024	1-108	8-41	01/25/02	Solid	01/25/02	01/26/02	02010	1254
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	4	mg/kg
Anlline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1	mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1	mg/kg
2-Chlorophenol	ND.	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1	mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl			0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/kg
3is(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1	mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	-		mg/kg	2,4,6-Trichloro		ND	0.50	1	mg/kg
Hexachloroethane	ND	0.50	4		mg/kg	4-Bromopheny			0.50	4	mg/kg
Nitrobenzene	ND	2.5	4		mg/kg	Hexachloroben	Contract of the second	ND	0.50	4	mg/kg
Isophorone	ND	0.50	4		mg/kg	Pentachlorophi	Section 1	ND	2.5	4	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	3,101	ND	0.40	4	mg/kg
2,4-Dimethylphenol	ND	0.50			mg/kg	Anthracene		ND	0.40	4	mg/kg
Benzoic Acid	ND	2.5	4		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	4	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0,50	- 1		mg/kg	Fluoranthene	aidto	ND	0.40	4	mg/kg
2,4-Dichlorophenol	ND	0.50	4		mg/kg	Benzidine		ND	10	4	mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1	mg/kg
Naphthalene	ND	0.40	4		mg/kg	Pyridine		ND	0.50	4	mg/kg
4-Chloroaniline	ND	0.50	- 2		mg/kg	Butyl Benzyl P	hthalata	ND	0.50	1	mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	4		mg/kg	3,3'-Dichlorobe		ND	0.50	1	mg/kg
4-Chloro-3-Methylphenol	ND	0.50	4		mg/kg	Benzo (a) Anth		ND	0.40	1	mg/kg
2-Methylnaphthalene	ND	0.40	4		CONTRACTOR OF THE PARTY OF THE	Bis(2-Ethylhex		ND	0.50	1	mg/kg
	ND	0.40	- 4		mg/kg	Chrysene	yi) Primalate	ND	0.40	1	
1-Methylnaphthalene	ND		1		mg/kg		alata.	ND	0.50	1	mg/kg
Hexachlorocyclopentadiene		1.5 0.50	1		mg/kg	Di-n-Octyl Phth			0.40	1	mg/kg
2,4,5-Trichlorophenol	ND	100000	-		mg/kg	Benzo (k) Fluo		ND ND	0.40		mg/kg
2-Chloronaphthalene 2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (b) Fluo			St 100 St.	1	mg/kg
- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c	The state of the s	ND	0.40	1	mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A		ND	0.40	1	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1	mg/kg
Acenaphthene	ND	0.40	1	-	mg/kg	A. marking		and the same of th	Sal 1500		
Surrogates:	REC (%)	Control Limits		Qua	1	Surrogates:		REC (%)	Control Limits		1
2-Fluorophenol	87	31-142				Phenol-d6		90	30-136		
litrobenzene-d5	83	28-139				2-Fluorobipher		90	33-144		
2,4,6-Tribromophenol	87	24-152				p-Terphenyl-d	14	91	23-160		

RL - Reporting Limit

DF - Dilution Factor ,

Lalscience nvironmental aboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation: 01/25/02 02-01-1088 EPA 3545

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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ult RL 0.50 0.50	O: DE	-01-10	00 42				Analyzed		atch ID
0.50	DF		10-4C	01/25/02	Solid	01/25/02	01/28/02	0201	01254
10,000		Qual	<u>Units</u>	Parameter		Result	RL	DF Qu	al Units
10,000			mg/kg	2,4-Dinitrophenol		ND	2.5	1	mg/kg
			mg/kg	4-Nitrophenol		ND	0.50	1	mg/kg
0.50			mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
2.5			mg/kg	2,4-Dinitrotoluene	i i	ND	0.50	4	mg/kg
0.50			mg/kg	2,6-Dinitratoluene		ND	0.50	1	rng/kg
0.50			mg/kg	Diethyl Phthalate		ND	0.50	1	mg/kg
0.50			mg/kg	4-Chlorophenyl-P	henvi Ether	ND	0.50	1	mg/kg
0.50			mg/kg	Fluorene		ND	0.40	1	rng/k
0.50			mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
0.50			mg/kg	Azobenzene		ND	0.50	1	mg/kg
0.50		ì	mg/kg	4,6-Dinitro-2-Meth	vlohenol	ND	2.5	1	mg/k
0.50			mg/kg	N-Nitrosodipheny		ND	0.50	1	mg/k
0.50			mg/kg	2,4,6-Trichlorophe		ND	0.50	1	mg/k
0.50			mg/kg	4-Bromophenyl-P		ND	0.50	1	mg/kg
2.5		•	mg/kg	Hexachlorobenze		ND	0.50	1	mg/k
0.50	6		mg/kg	Pentachlorophene		ND	2.5	1	mg/k
0.50			mg/kg	Phenanthrene		ND	0.40	1	mg/k
0.50			mg/kg	Anthracene		ND	0.40	1	mg/k
2.5		ı	mg/kg	Di-n-Butyl Phthata	ate	ND	0.50	1	mg/k
0.50	0 5	1	mg/kg	Fluoranthene		ND	0.40	1	mg/k
0.50			mg/kg	Benzidine		ND	10	1	mg/k
0.50		1	mg/kg	Pyrene		ND	0.40	1	mg/kg
0.40		1	mg/kg	Pyridine		ND	0.50	1	mg/kg
0.50			mg/kg	Butyl Benzyl Phth	alate	ND	0.50	1	mg/k
0.50		1	mg/kg	3,3'-Dichlorobenz		ND	0.50	1	mg/k
0.50		1	mg/kg	Benzo (a) Anthra		ND	0.40	1	mg/k
0.40		i	mg/kg	Bis(2-Ethylhexyl)		ND	0.50	4	mg/k
0.40		1	mg/kg	Chrysene	Titalelete	ND	0.40	1	mg/k
1.5		1	mg/kg	Di-n-Octyl Phthal	ate	ND	0.50	1	mg/k
0.50		1	mg/kg	Benzo (k) Fluorar		ND	0.40		mg/k
0.50		1	mg/kg	Benzo (b) Fluorar		ND	0.40	1	mg/k
0.50		1	mg/kg	Benzo (a) Pyrene		ND	0.35	1	mg/k
0.50		1	mg/kg	Indena (1,2,3-c,d		ND	0.40	1	mg/k
0.40		1	mg/kg	Dibenz (a,h) Anth		ND	0.40	1	mg/k
		1		The Charles of the State of the			15000	4	mg/k
		1		Source (Study Let)	, and	113	DAG		mg/K
(%) Contr	1			Surrogates:		REC (%)		Q	ial
				Phenol-46		96			
	0.40 (%) <u>Control</u> Limits 31-14 28-13	77.77	0.40 1 (%) <u>Control</u> <u>Qua</u> <u>Limits</u> 31-142 28-139	0.50 1 mg/kg 0.40 1 mg/kg %) Control Qual Limits 31-142 28-139	0.50 1 mg/kg Benzo (g,h,i) Pen 0.40 1 mg/kg Control Qual Surrogates: Limits Phenol-d6 28-139 2-Fluorobiphenyl	0.50 1 mg/kg Benzo (g,h,i) Perylene 0.40 1 mg/kg (%) Control Qual Surrogates: Limits 31-142 Phenol-d6 28-139 2-Fluorobiphenyl	0.50 1 mg/kg Benzo (g,h,i) Perylene ND 0.40 1 mg/kg (%) Control Qual Surrogates: REC (%) Limits 31-142 Phenol-d6 96 28-139 2-Fluorobiphenyl 94	0.50 1 mg/kg Benzo (g,h,i) Perylene ND 0.40 0.40 1 mg/kg (%) Control Qual Surrogates: REC (%) Control Limits 31-142 Phenol-d6 96 30-136 28-139 2-Fluorobiphenyl 94 33-144	0.50 1 mg/kg Benzo (g,h,i) Perylene ND 0.40 1 0.40 1 mg/kg Control Qual Surrogates: REC (%) Control Qual Limits 31-142 Phenol-d6 96 30-136 28-139 2-Fluorobiphenyl 94 33-144



DF - Dilution Factor ,

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/25/02 02-01-1088 EPA 3545

Method:

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Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
SB-7-5			02-	01-106	8-43	01/25/02	Solid	01/25/02	01/28/02	0	20101	254
<u>Parameter</u>	Result	RL	DF	Qual	Units	Parameter		Result	RL	DE	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2.6-Dinitrotolue		ND	0.50	1		mg/k
1,3-Dichlorobenzene	ND	0.50	- 1		mg/kg	Diethyl Phthalat	9-4	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	3		mg/kg	Fluorene	1 1.001027 000.001	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/k
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/k
3is(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	ethylohenol	ND	2.5	1		mg/k
J/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodipher		ND	0.50	1		mg/k
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/k
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	1		mg/k
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben	C. Contraction	ND	0.50	1		mg/k
Isophorone	ND	0.50	1		mg/kg	Pentachlorophe	C. C. S. S. C. L.	ND	2.5	1		mg/k
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/k
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/k
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Pnth	alale	ND	0.50	1		mg/k
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	-19/4	ND	0.40	1		mg/k
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/k
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/k
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/k
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pt	ithalate	ND	0.50	1		mg/k
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/k
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthi		ND	0.40	1		mg/k
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexy		ND	0.50	1		mg/k
1-Methylnaphthaleng	ND	0.40	1		mg/kg	Chrysene	.,	ND	0.40	1		mg/k
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/k
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/k
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluor		ND	0.40	4		mg/k
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/k
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/k
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/k
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1		mg/k
Acenaphthene	ND	0.40	1		mg/kg	and taken in	- Ashira	1	M	-		
Surrogates:	REC (%)	Control		Qua		Surrogates:		REC (%)	Control		Qual	
2-Fluorophenoi	91	31-142				Phenol-d6		94	30-136			
Vitrobenzene-d5	88	28-139				2-Fluorobiphen	vi	91	33-144			
2,4,6-Tribromophenol	89	24-152				p-Terphenyl-d1		90	23-160			

RL - Reporting Limit ,

DF - Dilution Factor ,

Lalscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/25/02 02-01-1088 EPA 3545

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Batch ID
S8-7-5 DUP			024	01-108	8-44	01/25/02	Solid	01/25/02	01/28/02	020	101254
Parameter	Result	RL	DE	Qual	<u>Units</u>	Parameter		Result	RL	DF Q	ual Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	iol	ND	2.5	1	mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1	mg/k
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/k
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1	mg/k
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1	mg/k
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1	mg/k
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl			0.50	1	mg/k
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	((0±1)21 = +15)	ND	0.40	1	mg/k
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1	mg/k
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/k
Nis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1	mg/k
/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1	mg/k
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1	mg/k
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	1	mg/k
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1	mg/k
Isophorone	ND	0.50	1		mg/kg	Pentachlorophe	Market Market	ND	2.5	1	mg/k
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1	mg/k
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1	mg/k
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	ialate	ND	0.50	1	mg/k
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1	mg/k
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1	mg/k
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	11	mg/k
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0,50	1	mg/k
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pi	hthalate	ND	0.50	1	mg/k
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1	mg/k
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1	mg/k
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex		ND	0.50	1	mg/k
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene		ND	0.40	1	mg/k
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	nalate	ND	0.50	1	mg/k
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1	mg/k
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1	mg/k
2-Nitroaniline	ND	0,50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1	mg/k
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1	mg/k
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ai	The second secon	ND	0.40	1	mg/k
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1	mg/k
Acenaphthene	ND	0.40	1		mg/kg	September 6-0-56-6	- drawn		20.77		
Surrogates:	REC (%)	Control Limits		Qua	100	Surrogates:		REC (%)	Control Limits	9	lual
2-Fluorophenol	95	31-142				Phenol-d6		98	30-136		
(Itrobenzene-d5	91	28-139				2-Fluorobipher	nul.	94	33-144		
2,4,6-Tribromophenol	93	24-152				p-Terphenyl-di		94	23-160		

RL - Reporting Limit ,

DF - Dilution Factor ,

Lalscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/25/02 02-01-1088 EPA 3545

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	h ID
SB-7-10			02-	01+108	18-45	01/25/02	Solid	01/25/02	01/29/02	03	20101	254
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	<u>DF</u>	Qual	<u>Units</u>
N-Nitrosodlmethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	iol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	200	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0,50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ne	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	3,0121,41,231024	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
3is(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	0.555	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	25-410	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pl	nthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	(A)	ND	0,40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benza (k) Fluo		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	TOWNS TOWNS	and carry	200	2008			
Surrogates:	REC (%)	Control Limits		Qua	and order	Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	101	31-142				Phenol-d6		103	30-136			
litrobenzene-d5	95	28-139				2-Fluorobipher	M	100	33-144			
2,4,6-Tribromophenol	99	24-152				p-Terphenyl-d1		100	23-160			



DF - Dilution Factor ,

Calscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/25/02 02-01-1088 EPA 3545

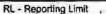
Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl mber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Bato	h ID
\$8-7-10 DUP			024	14-108	8-46	01/25/02	Solid	01/25/02	01/29/02	020	101	254
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DE C	ual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2,5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	te	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl			0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	1 (1-1-2)	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Nis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop	The state of the s	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben	CAST CONTRACT CONTRAC	ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe	271.44	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	31,04	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	CHUIC	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50			mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pl	nthalata	ND	0.50	4		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	4		mg/kg
4-Chioro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	4		mg/kg
# 16 THE CONTRACTOR OF THE PROPERTY OF THE PRO	ND	0.40	-					ND	0.50	1		mg/kg
2-Methylnaphthalene 1-Methylnaphthalene	ND	0.40	4		mg/kg mg/kg	Bis(2-Ethylhex) Chrysene	ny raminalate	ND	0.40	4		mg/kg
Hexachlorocyclopentadiene	ND	1.5	4		mg/kg	Di-n-Octyl Phth	alata	ND	0.50	4		mg/kg
2.4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.50	1		mg/kg
2.4,5-1 nchlorophenor	ND	0.50	1			Benzo (b) Fluo		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50			mg/kg		the second second	ND	0.40	1		mg/kg
2-Ntroanline Dimethyl Phthalate	ND	0.50	1		mg/kg	Benzo (a) Pyre	A. A. A. A. C.	ND	0.33	4		
Acenaphthylene	ND		4		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/kg
3-Nitroaniline		0.40	1		mg/kg	Dibenz (a,h) A		ND	0.40	4		mg/kg
a-nitroaniline Acenaphthene	ND ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40			mg/kg
		0.40			mg/kg	-		524 54	4			
Surrogates:	REC (%)	Control Limits		Qua	L	Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	101	31-142				Phenol-d6		103	30-136			
litrobenzene-d5	95	28-139	C .			2-Fluorobipher		96	33-144			
2,4,6-Tribromophenol	99	24-152				p-Terphenyl-d1	4	101	23-160			



DF - Dilution Factor

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ANALYTICAL REPORT

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Method:

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Project: LAUSD-East Valley M.S. / 47127

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SB-7-15			M	mber		Collected	Matrix	Prepared	Analyzed	Q	C Bate	ch ID
	***************************************		02-4	01-108	8-47	01/25/02	Solid	01/25/02	01/29/02	07	20101	254
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DE	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	-	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
,3-Dichlorobenzene	ND	0.50	1		mg/kg	Dielhyl Phthalal		ND	0.50	1		mg/kg
,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	r itter gr Auran	ND	0.40	1		mg/kg
,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	4		mg/kg	4,6-Dinitro-2-Me	ethylohenol	ND	2.5	1		mg/kg
/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodipher		ND	0.50	1		mg/kg
I-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/kg
texachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl		ND	0.50	1		mg/kg
litrobenzene	ND	2.5	1		mg/kg	Hexachloroben	The same of the same of the same of	ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe	32013	ND	2.5	- 1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	4		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	4		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	0.0.0	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzane	ND	0.50	4		mg/kg	Pyrene		ND	0.40	1		mg/kg
Vaphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
l-Chloroanlline	ND	0.50	1		mg/kg	Butyl Benzyl Pt	thalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
I-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexy		ND	0.50	1		mg/kg
I-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	i) i imiaiate	ND	0.40	1		mg/kg
-wedrymaphinalene -lexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/kg
2-Chloronaphthalene	NO	0.50	1		mg/kg	Benzo (b) Fluor		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	4		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/k
l-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	Denico (g,nn) in	ai Morio	110	0.40			my/N
Surrogates:	REC (%)	Control Limits		Qua	100	Surrogates:		REC_(%)	Control Limits	11	Qual	
2-Fluorophenol	89	31-142				Phenol-d6		94	30-136			
litrobenzene-d5	86	28-139				2-Fluorobiphen	vi	90	33-144			
2,4,6-Tribromophenol	90	24-152				p-Terphenyl-d1		93	23-160			

RL - Reporting Limit

DF - Dilution Factor ,

Calscience Environmental Laboratories, Inc.

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Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/25/02 02-01-1088 EPA 3545

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl mber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bat	ch ID
SB-7-15 DUP			02-0	1-108	8-48	01/25/02	Solid	01/25/02	01/29/02	02010	254
Parameter	Result	RL	<u>DF</u>	Qual	Units	Parameter		Result	RL	DF Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1	mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	7.50	ND	0.50	1	mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	9	mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND.	0.50	1	mg/kg
1.3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1	mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	3 312191 (2014)	ND	0.40	1	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/kg
9is(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1	mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1	mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	1	mg/kg
Nitrobenzene	ND	2.5	4		mg/kg	Hexachloroben	the first section of the section of	ND	0.50	1	mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophi		ND	2.5	1	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	Sildi	ND	0.40	1	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1	mg/kg
Bis(2 Chloroethoxy) Methane	ND	0.50	+		mg/kg	Fluoranthene	alaic	ND	0.40	1	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	4	mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	4	mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl P	héhalata	ND	0.50		
	ND	0.50	1			3,3'-Dichlorobe		ND	0.50		mg/kg mg/kg
Hexachloro-1,3-Butadiene 4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg mg/kg	Benzo (a) Anth		ND	0.40	-	mg/kg
	ND	0.40	1					ND	0.50	1	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg mg/kg	Bis(2-Ethylhex Chrysene	yi) Fillialate	ND	0.40		mg/kg
1-Methylnaphthalene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	nalata	ND	0.50	,	mg/kg
Hexachlorocyclopentadiene 2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1	mg/kg
	ND		1					ND	0.40	1	
2-Chloronaphthalene 2-Nitroaniline	ND	0.50 0.50	1		mg/kg mg/kg	Benzo (b) Fluo Benzo (a) Pyre		ND	0.35	1	mg/kg mg/kg
60. 3170.00.00 001000	ND	0.50	4					ND	0.40	4	
Dimethyl Phthalate Acenaphthylene	ND	0.50	4		mg/kg mg/kg	Indeno (1,2,3-c Dibenz (a,h) A		ND	0.40	1	mg/kg
Acenaphinylene 3-Nitroaniline			4					200		1	mg/kg
	ND	0.50	4		mg/kg	Benzo (g,h,i) P	ciliana	ND	0.40		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	Americana		20200	20000	gl-s	
Surrogates:	REC (%)	Control Limits		Qua	1	Surrogates:		REC (%)	Control Limits	192.0	Ī
2-Fluorophenol	90	31-142				Phenol-d6		93	30-136		
Nitrobenzene-d5	87	28-139				2-Fluorobipher		90	33-144		
2,4,6-Tribromophenol	87	24-152	-			p-Terphenyl-d	14	92	23-160		

RL - Reporting Limit ,

DF - Dilution Factor ,

alscience nvironmental aboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation:

02-01-1088 **EPA 3545**

01/25/02

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sample mber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QCE	Batch ID
SB-6-5			02-6	1-108	8-49	01/25/02	Solid	01/25/02	01/29/02	020	101254
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Q	ual Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1	mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	•	ND	0.50	1	mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalas		ND	0.50	1	mg/kg
.4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyi		ND	0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	, mony, mand.	ND	0.40	4	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	sthylphenol	ND	2.5	1	mg/kg
3/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodipher		ND	0,50	3	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1	mg/kg
lexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	1	mg/kg
Vitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1	mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	illoi	ND	0.40	1	mg/kg
2,4-Dimethylphonol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	4	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1	mg/kg
Sis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	alate	ND	0.40	4	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	4		mg/kg	Pyrene		ND	0.40	4	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	4	mg/kg
4-Chloroaniline	ND	0.50	1				Malata	ND	0.50	-	mg/kg
The state of the s	ND		1		mg/kg	Butyl Benzyl Pt		ND	0.50	1	
Hexachloro-1,3-Butadiene		0.50			mg/kg	3,3'-Dichlorober			0.50		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anthi		ND		1	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexy	(I) Phinalate	ND	0.50	1	mg/kg
I-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	SAC Ann	ND	0.40	1	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth		ND	0.50	1	mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluor		ND	0.40	1	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1	mg/k
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c	The College of the Co	ND	0.40	1	mg/k
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0.40	1	mg/k
I-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1	mg/kg
Acenaphthene	ND	0.40	1		mg/kg						
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits		<u>ual</u>
2-Fluorophenol	100	31-142				Phenol-d6		103	30-136		
Nitrobenzene-d5	94	28-139				2-Fluorobiphen	yl	98	33-144		
2,4,6-Tribromophenol	99	24-152				p-Terphenyl-d1		97	23-160		

RL - Reporting Limit ,

DF - Dilution Factor ,

Lalscience Invironmental Laboratories, Inc.

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
SB-6-9			024	14-106	8-50	01/25/02	Solid	01/25/02	01/29/02	0	20101	254
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	-	ND	0.50	1		mg/k
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/k
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/k
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/k
1,3-Dichlorobenzene	ND	0.50	4		mg/kg	Diethyl Phthala		ND	0.50	1		mg/k
1,4-Dichlorabenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	4		rng/k
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	· nonyi Luici	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0,50	1		mg/k
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/k
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	ethylphenol	ND	2.5	4		mg/k
3/4-Methylphenol	ND	0.50	4		mg/kg	N-Nitrosodipher		ND	0.50	4		mg/k
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/k
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	4		mg/k
Vitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	4		mg/k
sophorone	ND	0.50	-		mg/kg	Pentachlorophe		ND	2.5	1		mg/k
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	arior .	ND	0.40	- 1		mg/k
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/k
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alata	ND	0.50	1		mg/k
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	aiate	ND	0.40	1		mg/k
2,4-Dichlorophenol	ND	0.50	1			Benzidine		ND	10	1		
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg			ND	0.40	1		mg/k
S. A. Marian and M. C.			1		mg/kg	Pyrene		C/80.44		- 1		mg/k
Naphthalene 4-Chloroaniline	ND	0.40			mg/kg	Pyridine	the late	ND	0.50	1		mg/k
A STATE OF THE PARTY OF THE PAR	ND	0.50	1		mg/kg	Butyl Benzyl Ph		ND	0.50	1		mg/k
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe	C. C	NO	0.50	1		mg/k
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/k
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)	/// Primalate	ND	0.50	1		mg/k
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	alata	ND	0.40	1		mg/k
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth		ND	0.50	1		mg/k
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1		mg/k
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluor		ND	0.40	1		mg/k
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/k
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c	The state of the s	ND	0.40	1		mg/k
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/k
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	arylene	ND	0.40	1		mg/k
Acenaphthene	ND	0.40	1		mg/kg							
Surrogates:	REC (%)	Control Limits		Qua	1	Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	96	31-142				Phenol-d6		99	30-136			
Vitrobenzene-d5	91	28-139				2-Fluorobiphen	yl	94	33-144			
2,4,6-Tribromophenol	96	24-152				p-Terphenyl-d1		99	23-160			

RI - Recoding Limit

DF - Dilution Factor ,

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/25/02 02-01-1088 EPA 3545

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Ba	tch ID
Method Blank			099	04-01	0-1,178	N/A	Solid	01/25/02	01/26/02	02010	1254
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qua	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	iol	ND	2.5	1	mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1	mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1	mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	, x 1,100 3	ND	0.40	1	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/kg
3is(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1	mg/kg
J/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1	mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	1	mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1	mg/kg
sophorane	ND	0.50	1		mg/kg	Pentachloroph		ND	2.5	1	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	i di di di	ND	0.40	1	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	4	mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1	mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl P	hthalato	ND	0.50	1	mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1	mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex		ND	0.50	1	mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	yi) i illialate	ND	0.40	1	mg/kg
Hexachlorocyclopentadiene	ND	1.5	4		mg/kg	Di-n-Octyl Phth	nalate	ND	0.50	1	mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1	mg/kg
2-Chloronaphthalene	ND	0.50	4		mg/kg	Benzo (b) Fluo		ND	0.40	1	mg/kg
2-Nitroaniline	ND	0.50	4		mg/kg	Benzo (a) Pyre		ND	0.35	1	mg/kg
Dimethyl Phthalate	ND	0.50	-		mg/kg	Indeno (1,2,3-0		ND	0.40		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A		ND	0.40	1	mg/kg
3-Nitroaniline	ND	0.50								4	mg/kg
Acenaphthene	ND	0.40	1		mg/kg mg/kg	Benzo (g,h,i) P	er yierie	ND	0.40	4	myrkg
Charles A April 2002 - 20						A		DEC 1811	844		Orași.
Surrogates:	REC (%)	<u>Control</u> <u>Limits</u>		Qua	1	Surrogates:		REC (%)	Control Limits		ji.
2-Fluorophenol	96	31-142				Phenol-d6		101	30-136		
vitrobenzene-d5	100	28-139				2-Fluorobipher	nyl	96	33-144		
2,4,6-Tribromophenol	84	24-152				p-Terphenyl-d	14	99	23-160		

RL - Reporting Limit

DF - Dilution Factor ,

Lalscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

Method:

01/25/02 02-01-1088 EPA 3545 EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

Page 37 of 37

Client Sample Number				Sample mber		Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bate	sh ID
Method Blank			099	04-010	-1,180	N/A	Solid	01/25/02	01/27/02	Ď	20125	7
Parameter	Result	RL	DF	Qual !	Units	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1	п	ng/kg	2,4-Dinitrophen	iol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		ng/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		ng/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		ng/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		ng/kg	2.6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		ng/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		ng/kg	4-Chlorophenyl		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		ng/kg	Fluorene		ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		ng/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		ng/kg	Azobenzene		ND	0.50	1		mg/kg
Nis(2-Chloroisopropyl) Ether	ND	0.50	1		ng/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
J/4-Methylphenal	ND	0.50	1		ng/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		ng/kg	2.4,6-Trichloro	The state of the s	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		ng/kg	4-Bromopheny		ND	0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		ng/kg	Hexachloroben		ND	0.50	- 1		mg/kg
Isophorone	ND	0.50	4		ng/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		ng/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		ng/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		ng/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		ng/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		ng/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		ng/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		ng/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		ng/kg	Butyl Benzyl Pi	hthalate	ND	0.50	1		mg/kg
Hexachioro-1,3-Butadiene	ND	0,50	1		ng/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		ng/kg	Benzo (a) Anth	A THE PARTY OF THE	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		ng/kg	Bis(2-Ethylhex		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		ng/kg	Chrysene	A No. 1000	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		ng/kg	Di-n-Octyl Phth	nalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		ng/kg	Benzo (k) Fluo		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		ng/kg	Benzo (b) Fluo		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		ng/kg	Benzo (a) Pyre		NO	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		ng/kg	Indeno (1,2,3-0		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		ng/kg	Dibenz (a,h) A		ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		ng/kg	Benzo (g,h,i) P		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		ng/kg	101 17	0.74(4.45)	7.52				
Surrogates:	REC (%)	Control		Qual		Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	80	31-142	0			Phenol-d6		89	30-136			
litrobenzene-d5	89	28-139				2-Fluorobipher	nul	82	33-144			
4,4,6-Tribromophenol	63	24-152				p-Terphenyl-d		76	23-160			

RL - Reporting Limit .

DF - Dilution Factor ,

alscience nvironmental aboratories, Inc.

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

EPA 3545

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

Page 1 of 3

Client Sample Number				Sampl Imber	le	Date Collected	Matrix	Date Prepared	Date Analyzed	d QC Batch ID		
SB-21-0.6			02-	01-108	8-9	01/26/02	Solid	02/14/02	02/14/02	0	2021	12
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropher	nol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ine	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ne	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	ite	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chloropheny	I-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0,50	1		mg/kg	Fluorene	Constitution of the Land	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2,5	1		mg/kg
/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe	nylamine	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0,50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny		ND	0.50	-1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorober		ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachloroph		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		0.42	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		0.13	0.40	1	J	mg/kg
Benzoic Acid	ND	2.5	7		mg/kg	Di-n-Butyl Phtf	nalate	ND	0.50	1	-	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3.3	0.4	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		3.4	0.4	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl P	hthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadlene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anti	ACT TO SERVICE TO SERV	3.0	0.4	1		mg/kg
2-Methylnaphthalene	ND	0.40	4		mg/kg	Bis(2-Ethylhex		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	3.9 1 7/11/01/01/0	2.9	0.4	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phti	nalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo	77.7	2.6	0.4	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		2.8	0.4	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		2.7	0.3	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-		1.2	0.4	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A	Marie Alban State	0.42	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) F		1.0	0.4	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	Tolling (Birth)	J	3.00				שייושייי
Surrogates:	REC (%)	Control Limits		Qua	F	Surrogates:		REC (%)	Control Limits		Qua	1
2-Fluorophenol	76	31-142				Phenol-d6		77	30-136			
Nitrobenzene-d5	79	28-139				2-Fluorobipher	nvi	81	33-144			
2,4,6-Tribromophenol	74	24-152				p-Terphenyl-d		77	23-160			

DF - Dilution Factor .

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/25/02 02-01-1088 EPA 3545

Method: EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

Page 2 of 3

Client Sample Number				Sampl	le	Date Collected	Matrix	Date Prepared	Date Analyzed	a	C Bato	ch ID
SE-21-0.5 (Homogenized)			02-	01-108	18-51	01/28/02	Solid	02/14/02	02/14/02	(20214	2
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2.4-Dinitrophen	iol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ine	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ine	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		rng/kg	Diethyl Phthala	ite	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chloropheny	-Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	4		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
'/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben	the state of the s	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachlorophi		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		1.6	0.4	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		0.54	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	- Indian	14	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		14	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chlorogniline	ND	0.50	1		mg/kg	Butyl Benzyl Pi	hthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth	Yang Salah Balan	13	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	yi) i innoisie	13	0.40	i		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	atata	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		11	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		12	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		12	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		4.7	0.4	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A		1.6	0.4	1		mg/kg
3-Nitroaniline	ND	0.50	1					4.2	0.4	1		
Acenaphthene	ND	0.40	1		mg/kg mg/kg	Benzo (g,h,i) P	or yierie	4.4	0.4	1		mg/kg
Surrogates:	REC (%)	Control		Qua		Surrogates:		REC (%)	Control		Qual	
2-Fluorophenol	78	Limits				Phenol-d6		82	Limits 30-136			
		31-142				Carlotte and the control of	and the same of th	83				
Nitrobenzene-d5	82	28-139				2-Fluorobiphen	•		33-144			
2,4,6-Tribromophenol	74	24-152				p-Terphenyl-d1	14	77	23-160			



Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/25/02 02-01-1088 EPA 3545

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

Page 3 of 3

Client Sample Number			200	Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bat	ch ID
Method Blank			099	-04-01	0-1,192	N/A	Solid	02/14/02	02/14/02	92021	12
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropher	iol	ND	2.5	1	mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1	mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2.6-Dinitrotolue	ene	ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	7.5	ND	0.50	1	mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chloropheny		ND	0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	lethylphenol	ND	2.5	1	mg/kg
/4-Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1	mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1	mg/kg
Hexachioroethane	ND	0.50	1		ma/kg	4-Bromopheny		ND	0.50	1	mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachlorober	N. S. H. M. S. S. L. S. L. S. L. S. S. S. L. S. S. S. S. L. S. S. L. S.	ND	0.50	1	mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachloroph		ND	2.5	1	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1	mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1	mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl P	hthalate	ND	0.50	1	mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1	mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth	William Control	ND	0.40	1	mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex		ND	0.50	1	mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	,, · · · · · · · · · · · · · · · · · ·	ND	0.40	1	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phti	nalate	ND	0.50	1	mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1	mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1	mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) A		ND	0.40	1	mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) F		ND	0.40	1	mg/kg
Acenaphthene	ND	0.40	1		mg/kg	131.17	- A	-			
Surrogates:	REC (%)	Control		Qual		Surrogates:		REC (%)	Control	Qua	þ
2-Fluorophenol	96	31-142				Phenol-d6		99	30-136		
Nitrobenzene-d5	97	28-139				2-Fluorobipher	IVI	97	33-144		
3,4,6-Tribromophenol	91	24-152				p-Terphenyl-d		96	23-160		

RL - Reporting Limit ,

DF - Dilution Factor ,

Calscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/25/02 02-01-1088 EPA 3510B

Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

Page 1 of 2

Client Sample Number			Lab Sa Num	0-2*G* (12 *C)	Date Collected Matrix	Date Prepared	Date Analyzed	QC B	atch ID
EQUP BLANK 1/25			02-01	1088-33	01/25/02 Aqueous	01/25/02	01/28/02	0201	252
Parameter	Result	RL	DF Q	ual Units	Parameter	Result	RL	DF Qu	al Units
N-Nitrosodimethylamine	ND	10	1	ug/L	2,4-Dinitrophenol	ND	50	1	ug/L
Aniline	ND	10	1	ug/L	4-Nitrophenol	ND	10	1	ug/L
Phenol	ND	10	1	ug/L	Dibenzofuran	ND	10	1	ug/L
3(s(2-Chloroethyl) Ether	ND	25	1	ug/L	2.4-Dinitrotoluene	ND	10	1	ug/L
2-Chlorophenol	ND	10	1	ug/L	2,6-Dinitrotoluene	ND	10	4	ug/L
1,3-Dichlorobenzene	ND	10	1	ug/L	Diethyl Phthalate	ND	10	1	ug/L
1,4-Dichlorobenzene	ND	10	1	ug/L	4-Chlorophenyl-Phenyl Et		10	1	ug/L
Benzyl Alcohol	ND	10	1	ug/L	Fluorene	ND	10	4	ug/L
1,2-Dichlorobenzene	ND	10	1	ug/L	4-Nitroaniline	ND	10	1	ug/L
2-Methylphenol	ND	10	1	ug/L	Azobenzene	ND	10	1	ug/L
'is(2-Chloroisopropyl) Ether	ND	10	1	ug/L	4,6-Dinitro-2-Methylpheno		50	1	ug/L
/4-Methylphenol	ND	10	1	ug/L	N-Nitrosodiphenylamine	ND	10	1	ug/L
N-Nitroso-di-n-propylamine	ND	10	1	ug/L	4-Bromophenyl-Phenyl E		10	1	ug/L
Hexachloroethane	ND	10	1	ug/L	Hexachlorobenzene	ND	10	1	ug/L
Nitrobenzene	ND	25	1	ug/L	Pentachlorophenol	ND	10	1	ug/L
sophorone	ND	10	1	ug/L	Phenanthrene	ND	10	1	ug/L
2-Nitrophenol	ND	10	1	ug/L	Anthracene	ND	10	1	ug/L
2,4-Dimethylphenol	ND	10	1	ug/L	Di-n-Butyl Phthalate	ND	10	1	ug/L
Benzolc Acid	ND	50	1	ug/L	Fluoranthene	ND	10	1	ug/L
Bis(2-Chloroethoxy) Methane	ND	10	1	ug/L	Benzidine	ND	50	1	ug/L
2,4-Dichlorophenol	ND	10	1	ug/L	Pyridine	ND	10	1	ug/L
1,2,4-Trichlorobenzene	ND	10	1	ug/L	Pyrene	ND	10	1	ug/L
Naphthalene	ND	10	1	ug/L	Butyl Benzyl Phthalate	ND	10	1	ug/L
4-Chloroaniline	ND	10	1	ug/L	3,3'-Dichlorobenzidine	ND	25	1	ug/L
Hexachloro-1,3-Butadiene	ND	10	1	ug/L	Benzo (a) Anthracene	ND	10	1	ug/L
4-Chloro-3-Methylphenol	ND	10	1	ug/L	Bis(2-Ethylhexyl) Phthala		10	1	ug/L
2-Methylnaphthalene	ND	10	1	ug/L	Chrysene	ND	10	1	ug/L
Hexachlorocyclopentadiene	ND	25	1	ug/L	Di-n-Octyl Phthalate	ND	10	1	ug/L
2,4,6-Trichlorophenol	ND	10	4	ug/L	Benzo (k) Fluoranthene	ND	10	1	ug/L
2,4,5-Trichlorophenol	ND	10	1	ug/L	Benzo (b) Fluoranthene	ND	10	1	ug/L
2-Chloronaphthalene	ND	10	1	ug/L	Benzo (a) Pyrene	ND	10	1	ug/L
2-Nitroaniline	ND	10	1	ug/L	Benzo (g,h,i) Perylene	ND	10	1	ug/L
Dimethyl Phthalate	ND	10	1	ug/L	Indeno (1,2,3-c,d) Pyrene		10	4	ug/l
Acenaphthylene	ND	10	1	ug/L	Dibenz (a,h) Anthracene	ND	10	1	ug/L
3-Nitroaniline	ND	10	1	ug/L	1-Methylnaphthalene	ND	10	1	ug/L
Acenaphthene	ND	10	1	ug/L	. The state of the				-6/-
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits	. Qu	ial
2-Fluorophenol	48	15-138			Phenol-d6	41	17-141		
"itrobenzene-d5	85	56-123			2-Fluorobiphenyl	83	45-120		
_,4,6-Tribromophenol	57	32-143			p-Terphenyl-d14	77	46-133		
-,,o- implomophenol	J.	32-143			b- respicitived 14	11	40-100		

RL - Reporting Limit

DF - Dilution Factor

Calscience Invironmental Laboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 01/25/02 02-01-1088 EPA 3510B

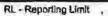
Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

Page 2 of 2

Client Sample Number			Lab Sa Numi		Date Collected	Matrix	Date Prepared	Date Analyzed	QC Ba	tch ID	
Method Blank			095-0	1-003-914	N/A	Aqueous	01/25/02	01/25/02	02012	0201252	
Parameter	Result	RL	DF Q	ual Units	Parameter		Result	RL	DF Qua	l Units	
N-Nitrosodimethylamine	ND	10	1	ug/L	2,4-Dinitrophe	nol	ND	50	1	ug/L	
Aniline	ND	10	1	ug/L	4-Nitrophenol	13-1	ND	10	1	ug/L	
Phenol	ND	10	1	ug/L	Dibenzofuran		ND	10	1	ug/L	
Bis(2-Chloroethyl) Ether	ND	25	1	ug/L	2,4-Dinitrotolu	ene	ND	10	1	ug/L	
2-Chlorophenol	ND	10	4	ug/L	2,6-Dinitrotolu	ene	ND	10	1	ug/L	
1,3-Dichlorobenzene	ND	10	1	ug/L	Diethyl Phthal		ND	10	1	ug/L	
1,4-Dichlorobenzene	ND	10	1	ug/L		yl-Phenyl Ether		10	1	ug/L	
Benzyl Alcohol	ND	10	1	ug/L	Fluorene		ND	10	1	ug/L	
1,2-Dichlorobenzene	ND	10	4	ug/L	4-Nitroaniline		ND	10	1	ug/L	
2-Methylphenoi	ND	10	1	ug/L	Azobenzene		ND	10	1	ug/L	
1is(2-Chloroisopropyl) Ether	ND	10	1	ug/L	4,6-Dinitro-2-N	Methylphenol	ND	50	1	ug/L	
/4-Methylphenol	ND	10	1	ug/L	N-Nitrosodiphe		ND	10	1	ug/L	
N-Nitroso-di-n-propylamine	ND	10	1	ug/L		yl-Phenyl Ether		10	1	ug/L	
Hexachloroethane	ND	10	1	ug/L	Hexachlorobe		ND	10	1	ug/L	
Nitrobenzene	ND	25	1	ug/L	Pentachloroph	S. W. S. C.	ND	10	1	ug/L	
sophorone	ND	10	1	ug/L	Phenanthrene		ND	10	1	ug/L	
2-Nitrophenol	ND	10	1	ug/L	Anthracene		ND	10	1	ug/L	
2,4-Dimethylphenol	ND	10	1	ug/L	Di-n-Butyl Pht	halate	ND	10	1	ug/L	
Benzoic Acid	ND	50	4	ug/L	Fluoranthene	, ioioio	ND	10	1	ug/L	
Bis(2-Chloroethoxy) Methane	ND	10	1	ug/L	Benzidine		ND	50	1	ug/L	
2,4-Dichlorophenol	ND	10	1	ug/L	Pyridine		ND	10	4	ug/L	
1,2,4-Trichlorobenzene	ND.	10	1	ug/L	Pyrene		ND	10	1	ug/L	
Naphthalene	ND	10	1	ug/L	Butyl Benzyl F	Phthalate	ND	10	4	ug/L	
4-Chloroaniline	ND	10	1	ug/L	3,3'-Dichlorob		ND	25	1	ug/L	
Hexachloro-1,3-Butadiene	ND	10	1	ug/L	Benzo (a) Ant	The state of the s	ND	10	4	ug/L	
4-Chloro-3-Methylphenol	ND	10	1	ug/L	Bis(2-Ethylher		ND	10	*	ug/L	
2-Methylnaphthalene	ND	10	1	ug/L	Chrysene	919 1 11111010	ND	10	4	ug/L	
Hexachlorocyclopentadiene	ND	25	1	ug/L	Di-n-Octyl Phi	thalate	ND	10	1	ug/L	
2,4,6-Trichlorophenol	ND	10	1	ug/L	Benzo (k) Fluo		ND	10	1	ug/L	
2,4,5-Trichlorophenol	ND	10	1	ug/L	Benzo (b) Flu		ND	10	1	ug/L	
2-Chloronaphthalene	ND	10	1	ug/L	Benzo (a) Pyr		ND	10	1	ug/L	
2-Nitroaniline	ND	10	1	ug/L	Benzo (g,h,i) I		ND	10	1	ug/L	
Dimethyl Phthalate	ND	10	1	ug/L	Indeno (1,2,3-	And the second s	ND	10	1	ug/L	
Acenaphthylene	ND	10	1	ug/L	Dibenz (a,h)		ND	10	1	ug/L	
3-Nitroaniline	ND	10	1	ug/L	1-Methylnaph		ND	10	1	ug/L	
Acenaphthene	ND	10	1	ug/L	,		.,,2			mB.r.	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:		REC (%)	Control Limits	Qu	al	
2-Fluorophenol	65	15-138			Phenol-d6		47	17-141			
litrobenzene-d5	91	56-123			2-Fluorobiphe	Invi	88	45-120			
∠,4,6-Tribromophenol	80	32-143			p-Terphenyl-d		92	46-133			



DF - Dilution Factor ,



Quality Control - Duplicate

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 1/25/02 02-01-1088 N/A EPA 9045C

Project:

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
SB-28-7	Solid	PH 4	01/25/02	01/25/02	0125PHDUP3
Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
pH	5,84	5.85	0	0-25	





Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

Total Digestion

Method:

EPA 6010B

Project: LAUSD-East Valley M.S. / 47127

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
SB-8-15	Solid	ICP 3300	01/25/02		01/28/02	012502ms9
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	55	51	50-115	7	0-20	
Arsenic	93	91	75-125	2	0-20	
Barium	104	107	75-125	1	0-20	
Beryllium	95	93	75-125	2	0-20	
Cadmium	97	95	75-125	2 2 2 1	0-20	
Chromium (Total)	96	95	75-125	2	0-20	
Cobalt	98	97	75-125	2	0-20	
Copper	101	100	75-125	1	0-20	
Lead	97	94	75-125	3	0-20	
Molybdenum	94	92	75-125	3	0-20	
Nickel	96	95	75-125	1	0-20	
Selenium	90	92	75-125	2	0-20	
Silver	99	98	75-125	1	0-20	
Thallium	87	85	75-125	3	0-20	
Vanadium	98	98	75-125	0	0-20	
Zinc	96	94	75-125	1	0-20	

Lalscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/25/02 02-01-1088 Total Digestion EPA 6010B

Project:

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	U	CS Batch Number
097-01-002-3,076	Solid	ICP 3300	01/28/02	0201254	pin in the	020125(cs9
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Antimony		50.0	51.5	103	80-120	
Arsenic		50.0	47.6	95	80-120	
Barium		50.0	55.0	110	80-120	
Beryllium		50.0	50.6	101	80-120	
Cadmium		50.0	53.2	106	80-120	
Chromium (Total)		50.0	51.7	103	80-120	
Cobalt		50.0	54.9	110	80-120	
Copper		50.0	50.6	101	80-120	
Lead		50.0	52.5	105	80-120	
Molybdenum		50.0	51.6	103	80-120	
Nickel		50.0	53.7	107	80-120	
Selenium		50.0	49.9	100	80-120	
Silver		25.0	24.5	98	80-120	
Thallium		50.0	51.9	104	80-120	
Vanadium		50.0	50.2	100	80-120	
Zinc		50.0	53.3	107	B0-120	



Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/25/02

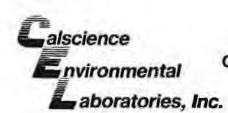
Work Order No:

02-01-1088

Preparation: Method: Total Digestion EPA 6010B

Project: LAUSD-East Valley M.S. / 47127

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
SB-32-15	Solid	ICP 3300	01/25/02		01/28/02	012602ms10
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	73	75	50-115	3	0-20	
Arsenic	91	92	75-125	1	0-20	
Barium	108	101	75-125	3	0-20	
Beryllium	94	94	75-125	1	0-20	
Cadmium	97	97	75-125	0	0-20	
Chromium (Total)	96	97	75-125	1	0-20	
Cobalt	99	99	75-125	1	0-20	
Copper	98	100	75-125	2	0-20	
Lead	96	98	75-125	2	0-20	
Molybdenum	94	95	75-125	1	0-20	
Nickel	97	97	75-125	0	0-20	
Selenium	90	95	75-125	5	0-20	
Silver	94	95	75-125	1	0-20	
Thallium	88	90	75-125	2	0-20	
Vanadium	96	99	75-125	2	0-20	
Zinc	84	89	75-125	4	0-20	



Quality Control - Laboratory Control Sample

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

Method:

01/25/02 02-01-1088 Total Digestion EPA 6010B

Project:

Quality Control Sample ID	Matrix	Instrumen	nt Date Analyzed	Lab Fi	le ID I	CS Batch Number	
097-01-002-3,077	Solid	ICP 330	0 01/28/02	020125-1		020125lc10	
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers	
Antimony		50.0	50.9	102	80-120		
Arsenic		50.0	46.9	94	80-120		
Barlum		50.0	54.4	109	80-120		
Beryllium		50.0	49.5	99	80-120		
Cadmium		50.0	52.7	105	80-120		
Chromium (Total)		50.0	51.2	102	80-120		
Cobalt		50.0	54.4	109	80-120		
Copper		50.0	50.1	100	80-120		
Lead		50.0	51.8	104	80-120		
Molybdenum		50.0	50.8	102	80-120		
Nickel		50.0	53.3	107	80-120		
Selenium		50.0	49.4	99	80-120		
Silver		25.0	24.3	97	80-120		
Thallium		50.0	51.4	103	80-120		
Vanadium		50.0	49.7	99	80-120		
Zinc		50.0	53.7	107	80-120		



Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

01/25/02

Work Order No:

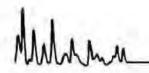
02-01-1088

Preparation: **Total Digestion**

Method:

EPA 7471A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	A	Date Analyzed	MS/MSD Batch Number
SB-23-7	Solid	Mercury	01725/02		01/28/02	012502ms8
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	84	84	76-136	0	0-16	





Quality Control - Laboratory Control Sample

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

Work Order No: Preparation:

Method:

01/25/02 02-01-1088

Total Digestion

EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-04-007-1,293	Solid	Mercury	01/28/02	0201251	020125ics6
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL Qualifiers
Mercury		0.835	0.873	105	82-124



Quality Control - Spike/Spike Duplicate

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Project:

Date Received: Work Order No: Preparation:

02-01-1088 Total Digestion

EPA 7471A

01/25/02

Method:

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
SB-5-15	Solid	Mercury	01/25/02		01/28/02	012502ms7
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	127	127	76-136	0	0-16	





Quality Control - Laboratory Control Sample

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

Method:

01/25/02 02-01-1088 Total Digestion EPA 7471A

Project:

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LC	CS Batch Number
099-04-007-1,294	Solid	Mercury	01/28/02	0201251		020125lcs7
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Mercury		0.835	0.873	105	82-124	



QUALITY ASSURANCE SUMMARY

Method EPA 8015M - Carbon Chain (Solids)

Earth Tech	Work Order No.:	02-01-1088
Page 1 of 1	Date Analyzed:	01/27/02

Surrogate Recoveries (in %)

Sample Number	<u>S1</u>
MS SB-8-5 DUP	99
MSD SB-8-5 DUP	100
LCS 02012505sa	101
MS SB-7-15	103
MSD SB-7-15	113
LCS 02012506sa	110

Surrogate Compound

S1 > Decachlorobiphenyl

Solid %REC Acceptable Limits

45 - 149



Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

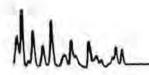
Ext. + D/I

Method:

TPH - Carbon Range

LAUSD-East Valley M.S. / 47127 Project:

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
SB-8-5 DUP	Solid	GC 15	01/25/02		01/27/02	02012505ms
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	93	96	49-139	3	0-28	





Quality Control - Laboratory Control Sample

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

Work Order No:

02-01-1088

Preparation:

Ext. + D/I

01/25/02

Method:

TPH - Carbon Range

Project:

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
098-03-002-1,605	Solid	GC 15	01/27/02	079F9101	02012505sa
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL Qualifiers
TPH as Diesel		400	390	97	65-124



Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

Ext. + D/I

Method:

TPH - Carbon Range

Project: LAUSD-East Valley M.S. / 47127

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
SB-7-15	Solid	GC 15	01/25/02		01/27/02	02012506ms
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	96	106	49-139	10	0-28	





Quality Control - Laboratory Control Sample

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

Work Order No:

02-01-1088

01/25/02

Preparation:

Ext. + D/I

Method:

TPH - Carbon Range

Project:

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
088-03-002-1,606	Solid	GC 15	01/27/02	087F0101	0201250 6 6a
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL Qualifiers
TPH as Diesel		400	380	95	65-124



QUALITY ASSURANCE SUMMARY

Method EPA 8081A (Solids)

Earth Tech	Work Order No.:	02-01-1088
Page 1 of 1	Date Analyzed:	01/28/02

Surrogate Recoveries (in %)

Sample Number	<u>S1</u>	<u>S2</u>
MS 0201108819	66	66
MSD 020110889	66	66
LCS 0201271	67	71

Surrogate Compound
Solid %REC
Acceptable Limits
S1 > Decachlorobiphenyl
S2 > 2,4,5,6-Tetrachloro-m-Xylene
Solid %REC
Acceptable Limits
50 - 130





Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

EPA 3545

Method:

EPA 8081A

Project:

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
88-1-3	Solid	GC 16	01/27/02		01/28/02	0201100818
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gamma-BHC	76	81	50-135	6	0-25	
Heptachlor	78	81	50-135	4	0-25	
Endosulfan I	72	77	50-135	6	0-25	
Dieldrin	74	79	50-135	7	0-25	
Endrin	82	87	50-135	6	0-25	
4,4'-DDT	84	88	50-135	4	0-25	



Quality Control - Laboratory Control Sample

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation: Method:

01/25/02 02-01-1088 **EPA 3545 EPA 8081A**

LAUSD-East Valley M.S. / 47127 Project:

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File	ID I	LCS Batch Number
099-07-011-19	Solid	GC 16	01/28/02	006F010	и	0201271
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Gamma-BHC		25	22	89	50-135	
Heptachlor		25	22	88	50-135	
Endosulfan I		25	22	86	50-135	
Dieldrin		25	22	88	50-135	
Endrin		25	22	89	50-135	
4,4'-DDT		25	24	94	50-135	



QUALITY ASSURANCE SUMMARY

Method EPA 8082 (Solids)

Earth Tech	Work Order No.:	02-01-1088
Page 1 of 1	Date Analyzed:	01/28/02

Surrogate Recoveries (in %)

Sample Number	<u>\$1</u>	<u>S2</u>
LCS 0201271	85	80
LCSD 0201271	87	82

Solid %REC Acceptable Limits

S1 > Decachlorobiphenyl S2 > 2,4,5,6-Tetrachloro-m-Xylene

Surrogate Compound

50 - 130 50 - 130

Mulmu



Quality Control - LCS/LCS Duplicate

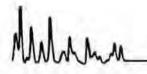
Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

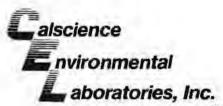
Date Received: Work Order No: Preparation: Method:

01/25/02 02-01-1088 EPA 3545 EPA 8082

Project:

Quality Control Sample ID	Matrix	Instrum	Da ent Prep	Water and the same of the same	Date nalyzed	LCS/LCSD Bat Number	ich
099-07-009-25	Solid	GC 10	01/2	7/02 0	1/28/02	0201271	
Parameter	LCS	%REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1260	78		78	50-135	0	0-25	





QUALITY ASSURANCE SUMMARY

Method EPA 8270C (Solids)

Surrogate Recoveries (in %) Sample Number S1 S2 S3 S4 S5 MS 0201101141 72 75 73 71 60 MSD 0201101141 74 83 85 80 65 LCS 020101254 98 101 101 97 90 MS 0201108813 93 104 110 107 83 MSD 0201108813 93 105 111 111 84 LCS 020101257 85 93 97 89 70 MS 020205736 98 100 99 101 94 MSD 020205736 98 101 98 102 97 LCS 0202142 97 98 97 98 95	Earth Tech Page 1 of 1		721, 188 J. S. 1750.		70.1 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7				-01-1088 25-27/02		
MS 0201101141 72 75 73 71 60 MSD 0201101141 74 83 85 80 65 LCS 020101254 98 101 101 97 90 MS 0201108813 93 104 110 107 83 MSD 0201108813 93 105 111 111 84 LCS 020101257 85 93 97 89 70 MS 020205736 98 100 99 101 94 MSD 020205736 98 101 98 102 97	Surrogate Recoveries (in %)										
MSD 0201101141 74 83 85 80 65 LCS 020101254 98 101 101 97 90 MS 0201108813 93 104 110 107 83 MSD 0201108813 93 105 111 111 84 LCS 020101257 85 93 97 89 70 MS 020205736 98 100 99 101 94 MSD 020205736 98 101 98 102 97	mple Number	<u>S1</u>	<u>S2</u>	<u>S3</u>	<u>\$4</u>	<u>S5</u>	<u>56</u>				
LCS 020101254 98 101 101 97 90 MS 0201108813 93 104 110 107 83 MSD 0201108813 93 105 111 111 84 LCS 020101257 85 93 97 89 70 MS 020205736 98 100 99 101 94 MSD 020205736 98 101 98 102 97	0201101141	72	75	73	71	60	73				
MS 0201108813 93 104 110 107 83 MSD 0201108813 93 105 111 111 84 LCS 020101257 85 93 97 89 70 MS 020205736 98 100 99 101 94 MSD 020205736 98 101 98 102 97	D 0201101141	74	83	85	80	65	79				
MSD 0201108813 93 105 111 111 84 LCS 020101257 85 93 97 89 70 MS 020205736 98 100 99 101 94 MSD 020205736 98 101 98 102 97	S 020101254	98	101	101	97	90	98				
LCS 020101257 85 93 97 89 70 MS 020205736 98 100 99 101 94 MSD 020205736 98 101 98 102 97	0201108813	93	104	110	107	83	101				
MS 020205736 98 100 99 101 94 MSD 020205736 98 101 98 102 97	SD 0201108813	93	105	111	111	84	105				
MSD 020205736 98 101 98 102 97	S 020101257	85	93	97	89	70	82				
	020205736	98	100	99	101	94	95				
LCS 0202142 97 98 97 98 95	SD 020205736	98	101	98	102	97	97				
	S 0202142	97	98	97	98	95	96				

Surrogate Compound	Solid %REC Acceptable Limits
S1 > 2-Fluorophenol	31 - 142
S2 > Phenol-d ₆	30 - 136
S3 > Nitrobenzene-d ₅	28 - 139
S4 > 2-Fluorobiphenyl	33 - 144
S5 > 2,4,6-Tribromophenol	24 - 152
S6 > p-Terphenyl-d14	23 - 160



Quality Control - Spike/Spike Duplicate

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method:

01/25/02 02-01-1088

EPA 3545 EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
02-01-1011-41	Solid	GCMSP	01/25/02		01/26/02	0201101141
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	74	85	53-118	13	0-19	
2-Chlorophenol	73	82	60-119	12	0-18	
1,4-Dichlorobenzene	72	80	56-131	10	0-18	
N-Nitroso-dl-n-propylamine	77	87	64-123	12	0-18	
1,2,4-Trichlorobenzene	65	71	52-144	10	0-17	
4-Chloro-3-Methylphenol	70	76	45-135	11	0-20	
Acenaphthene	78	88	45-152	13	0-18	
4-Nitrophenol	72	85	45-135	16	0-20	
2,4-Dinitrotoluene	78	89	42-128	13	0-23	
Pentachlorophenol	69	78	45-135	13	0-20	
Pyrene	75	84	45-135	11	0-20	

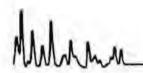


Quality Control - Laboratory Control Sample

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/25/02 02-01-1088 EPA 3545 EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

Quality Control Sample ID Matrix		Instrument	Date Analyzed	Lab File	D L	.CS Batch Number
099-04-010-1,178	Solid	GC/MS P	01/26/02	25JAN03	25JAN032	
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Phenot		10	9.6	96	67-118	
2-Chlorophenol		10	9.4	94	72-119	
1,4-Dichlorobenzene		10	9.3	93	69-118	
N-Nitroso-di-n-propylamine		10	9.8	98	70-112	
1,2,4-Trichlorobenzene		10	8.5	85	65-135	
4-Chloro-3-Methylphenol		10	9.5	95	45-135	
Acenaphthene		10	9.9	99	61-142	
4-Nitrophenol		10	9.9	99	45-135	
2,4-Dinitrotoluene		10	10	103	47-137	
Pentachlorophenol		10	9.3	93	45-135	
Pyrene		10	9.6	96	45-135	





Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

EPA 3545

Method:

EPA 8270C

Project:

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
SB-4-15	Solid	GC/IRS P	01/25/02		01/27/02	0201108813
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	110	110	53-118	0	0-19	
2-Chlorophenol	106	108	60-119	1	0-18	
1,4-Dichlorobenzene	106	107	58-131	2	0-18	
N-Nitroso-di-n-propylamine	111	112	64-123	1	0-18	
1,2,4-Trichlorobenzene	95	94	52-144	2	0-17	
4-Chloro-3-Methylphenol	103	103	45-135	0	0-20	
Acenaphthene	124	125	45-152	0	0-18	
4-Nitrophenol	121	124	45-135	2	0-20	
2,4-Dinitrotoluene	126	126	42-128	0	0-23	
Pentachlorophenol	100	99	45-135	0	0-20	
Pyrene	112	112	45-135	0	0-20	

Quality Control - Laboratory Control Sample

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/25/02 02-01-1088 EPA 3545 EPA 8270C

Project:

Quality Control Sample ID	y Control Sample ID Matrix		Date Analyzed	Lab File ID	LC	S Batch Number
099-04-010-1,180	Solid	GCMS P.	01/27/02	27JAN005		0201257
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Phenol		10	9.3	93	67-118	
2-Chlorophenol		10	9.2	92	72-119	
1,4-Dichlorobenzene		10	9.1	91	69-118	
N-Nitroso-di-n-propylamine		10	9.8	98	70-112	
1,2,4-Trichlorobenzene		10	7.9	79	65-135	
4-Chloro-3-Methylphenol		10	8.7	87	45-135	
Acenaphthene		10	9.6	96	61-142	
4-Nitrophenol		10	10	100	45-135	
2,4-Dinitrotoluene		10	9.8	98	47-137	
Pentachlorophenol		10	8.4	84	45-135	
Pyrene		10	8.2	82	45-135	



Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/25/02

Work Order No:

02-01-1088

Preparation:

EPA 3545

Method:

EPA 8270C

Project:

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number	
02-02-0573-8	Solid	GC/MS P	02/14/02	02/14/02		020205738	
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers	
Phenol	94	96	53-118	1	0-19		
2-Chlorophenol	94	95	60-119	1	0-18		
1,4-Dichlorobenzene	92	93	56-131	1	0-18		
N-Nitroso-di-n-propylamine	99	101	64-123	2	0-18		
1,2,4-Trichlorobenzene	84	86	52-144	2	0-17		
4-Chloro-3-Methylphenol	93	95	45-135	3	0-20		
Acenaphthene	101	104	45-152	3	0-18		
4-Nitrophenol	98	103	45-135	5	0-20		
2,4-Dinitrotoluene	109	111	42-128	2	0-23		
Pentachlorophenol	95	100	45-135	5	0-20		
Pyrene	88	91	45-135	3	0-20		



Quality Control - Laboratory Control Sample

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/25/02 02-01-1088 EPA 3545 EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File 10	LCS	Batch Number	
099-04-010-1,192	998-04-010-1,192 Solid GC/MS P		02/14/02	14FEB004		0202142	
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL	Qualiflers	
Phenol		10	9.9	99	67-118		
2-Chlorophenol		10	9,9	99	72-119		
1,4-Dichlarobenzene		10	9.9	99	69-118		
N-Nitroso-dl-n-propylamine		10	10	103	70-112		
1,2,4-Trichlorobenzene		10	9.0	90	65-135		
4-Chloro-3-Methylphenol		10	10	100	45-135		
Acenaphthene		10	11	107	61-142		
4-Nitrophenol		10	10	105	45-135		
2,4-Dinitrotoluene		10	11	112	47-137		
Pentachlorophenol		10	11	106	45-135		
Pyrene		10	9.8	98	45-135		



QUALITY ASSURANCE SUMMARY

Method EPA 8270C (Aqueous)

Earth Tech			Order No.:	02-01-1088		
Page 1 of 1			Analyzed:	01/25/02		
Surrogate Recoveries	s (in %)					
Sample Number	<u>S1</u>	<u>S2</u>	<u>\$3</u>	<u>S4</u>	<u>S5</u>	<u>\$6</u>
LCS 0201252	74	58	97	94	84	96
LCSD 0201252	84	64	104	100	94	100

Surrogate Compound	Aqueous %REC Acceptable Limits
S1 > 2-Fluorophenol	15 - 138
S2 > Phenol-d ₆	17 - 141
S3 > Nitrobenzene-d ₅	56 - 123
S4 > 2-Fluorobiphenyl	45 - 120
S5 > 2,4,6-Tribromophenol	32 - 143
S6 > p-Terphenyl-d14	46 - 133



Quality Control - LCS/LCS Duplicate

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/25/02 02-01-1088 EPA 3510B EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyze	d	LCS/LCSD Bate Number	ch
095-01-003-914	Aqueous	GC/MS P	01/25/02	01/25/02		0201252	Allen .
Parameter	LCS %RE	C LCSD 9	REC %R	EC CL	RPD	RPD CL	Qualifiers
Phenol	61	67	1:	2-151	10	0-23	
2-Chlorophenol	90	102	4	5-135	13	0-18	
1,4-Dichlorobenzene	89	98	3	6-118	9	0-26	
N-Nitroso-di-n-propylamine	99	108	5	2-128	9	0-13	
1,2,4-Trichlorobenzene	85	92	4	2-120	7	0-21	
4-Chloro-3-Methylphenol	97	104	2	0-150	6	0-40	
Acenaphthene	105	112	5	1-137	6	0-11	
4-Nitrophenol	64	73	2	0-150	12	0-40	
2,4-Dinitrotoluene	107	114	2	5-143	6	0-36	
Pentachlorophenol	97	111	2	0-150	14	0-40	
Pyrene	102	106	4	5-135	4	0-20	

Calscience GLOSSARY OF TERMS AND QUALIFIERS Invironmental Laboratories, Inc.

Work Order Number: 02-01-1088

Qualifier	<u>Definition</u>
J	Analyte was detected at a concentration below the reporting limit.
ND	Reported value is estimated. Not detected at indicated reporting limit.



February 21, 2002 PM08002

Steve Williams
Earth Tech
100 West Broadway, Suite 240
Long Beach, CA 90802-4432

Subject:

Calscience Work Order No.:

02-01-1132

Client Reference:

LAUSD East Valley M. S. /47127

Dear Mr. Williams:

Calscience Environmental Laboratories, Inc. (Calscience) is pleased to submit herewith the subject analytical report. The narrative presented below summarizes our analytical effort and clarifies any quality control anomalies which appear in the report.

Sample Condition on Receipt

Sixteen soil samples received as part of this Work Order on January 28, 2001. All samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature of the ice-chest was measured upon arrival in the laboratory and was within acceptable limit (3°C). The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary

Data is presented on a wet weight basis.

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks

The method blank data showed non-detectable levels for all constituents, with the exception of trace levels of cobalt for batch 020128lcs8.

Matrix Spikes

Matrix spikes (MS) and matrix spike duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits, with the exception of antimony for batch 012802ms8. The recoveries were outside the QC limits for the MS and MSD. However, the corresponding Laboratory Control Sample (LCS) recovery was within control limits, indicating a matrix interference effect. Therefore, the data is released without further action or qualification.

Laboratory Control Samples

The Laboratory Control Sample (LCS) analysis was performed at the required frequency. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for all samples were within acceptable control limits.

If there are any questions regarding this report, please contact the undersigned at (714) 895-5494.

Sincerely,

Calscience Environmenta

Laboratories, Inc.

Marycarol Valenzuela

Project Manager

Michael J. Crisostomo Quality Assurance Manager

CEL



A TUCO INTERNATIONAL LTD. COMPANY

700		- SER.							1			0 - 5	0		Custo	ody Seal #	10-10-		Earth	Tech (#	
	ect Number	Project Name		A 100	7				-				CHE	quired	-		Н	_		_	atrix		
	1127	EAST VAL	eog n	1.3.		_	a			3	5	F	3	1 1				Sa	mple T	уре	S	ample	Contain
	ple Custodian: (S		- M				1 3		(TPH)	(svoca)	(Rebs)	(Mart)	(mare)			11		,			19	2	
tem	Sample	Description (D Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	Siog			1808	6010					1	1		AMBER	Ss sue	
1	EQUIP BLA		1/20/02		-		/			X		*			0.19			-			X		
2	SB-14-0.3		177	1B03	i		0			X	X		K		-	1 (a) (b)	O E	×		-	1	Y	
3	58-14-7			0905		13	0			X	X		x					1				1	
4	58-14-10			0310			0		H	DL	0							11		35 5			
5	36-14-12			8918			0	7.35	40	_	6				- 13			1		112			
6	515 - 19 - 05			0849			0			X	100		x	10				11			1111		
7	54- 19-7			147			0			×			×.					11					
8	38 -19-10			1220			0		Ho	24	9												
9	58- 19-12			on			0		40	20			TIE.								111		
0	56-34-20			1030			0			X			×		-Y								
1	5B - 34 -30			1105			0			×	X		X								19		
12	58- 34-35			1128			0		110	up													
13	5B-22-12			1315			0		160	LY					E								
14	58-21-7			1738			0			×	X	X					6						
15	SB-21-10			1738			0			1	2												
16	SB-21-12			1343	X		0		Ho	LX	2	15						X		9,19		X	5 3
17															=1							SOM S	
18	,	*				-																	
ling	uished by: (Signatur	· /2		1/200	e/Tir	1.05		by: (Signa						Dispo	osed of	by: (Signature)	Ite	ms:				Date /	Time
ling	uished by: (Signatur	e)		Da	te / Tin	me 05	Oliver 1	by: (Signa	iture)					Dispo	osed of	by: (Signature)	lte	ms:				Date /	/ Time
nd I	ab Results To: Ste	ve willan	15	Rema	rks:	24	HE-TA	1.	D			(Check D	elivery l	Method		Laborat	ory Re	ceiving l	Notes:			
00	6 BEACH C	y STE 240		E	dent	he	ss Airbill N	the,	EQU	-11	BLA	NK-	Sa	mples de	livered	in person	Custod	To 100		10 10 CO			
DN	6 BEACH C	A 90802		L	ab:	cxpie	25 WHOM IN	/	None	ma	LTA	1		munon c	arner		Temp.	of Ship	ping Co	ntainer:			
a,	(562) 951-	2086			hite C							File					Sample	Cond	tion:				

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC. Sample Summary Report

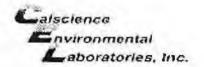
WORK ORDER #:

02-01-1132

QAPP:

0117

	Client Sample ID	Matrix	Date Collected	NoC	Comment
1	Equipment Blank 1-28	W	01/28/2002	1	
2	SB-14-0.5	S	01/28/2002	1	
3	SB-14-7	S	01/28/2002	1	
1	SB-14-10	S	01/28/2002	1	
5	SB-14-12	S	01/28/2002	1	
3	SB-19-0.5	S	01/28/2002	1	
7	SB-19-7	S	01/28/2002	1	
3	SB-19-10	S	01/28/2002	1	
	SB-19-12	S	01/28/2002	1	
0	SB-34-20	S	01/28/2002	1	
1	SB-34-30	S	01/28/2002	1	
2	SB-34-35	S	01/28/2002	1	
3	SB-22-12	S	01/28/2002	1	
4	SB-21-7	S	01/28/2002	1	
5	SB-31-10	S	01/28/2002	1	
6	SB-31-12	S	01/28/2002	1	



WORK ORDER #: 02- 1 1 3 3

Cooler ______ of ____

SAMPLE RECEIPT FORM

CLIENT: E - 7 -	DATE: 1/28/02
EMPERATURE - SAMPLES RECEIVED BY:	
Chilled, cooler with temperature blank provided. Chilled, cooler without temperature blank. Chilled and placed in cooler with wet ice. Ambient and placed in cooler with wet ice. Ambient temperature.	LABORATORY (Other than Calscience Courier): C Temperature blank. 3.0°C IR thermometer. Ambient temperature.
°C Temperature blank.	Initial:
CUSTODY SEAL INTACT:	
Sample(s): Cooler: No (Not Intac	ct): Not Applicable (N/A):
SAMPLE CONDITION:	A SALE
Chain-Of-Custody document(s) received with samples Sample container label(s) consistent with custody papers Sample container(s) intact and good condition Correct containers for analyses requested Proper preservation noted on sample label(s)	
COMMENTS:	

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240

Date Received:

01/28/02

Work Order No:

02-01-1132

Long Beach, CA 90802-4432

Preparation:

Total Digestion

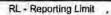
Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

Page 1 of 3

Client Sample Nu	mber			Sampl umber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	C	C Bate	ch ID
SB-14-0.5			02-	01-113	2-2	01/28/02	Solid	01/28/02	01/29/02	C	20128	ics8
Comment(s):	Mercury was analyz	ed on 1/28/02	7:03:1	BPMw	vith batch	020128lcs5						
Parameter	Resu	II RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	<u>Units</u>
Antimony	ND	0.750	1		mg/kg	Mercury		0.0699	0.0835	1	J	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		0.101	0.250	1	J	mg/kg
Barium	112	0.500	1		mg/kg	Nickel		9.53	0.25	1		mg/kg
Beryllium	0.3	92 0.250	1		mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.3	17 0.500	1	J	mg/kg	Silver		0.0427	0.250	1	J	mg/kg
Chromium (Total)			1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	8.6		1		mg/kg	Vanadlum		26.8	0.2	1		mg/kg
Copper	13.9		1		mg/kg	Zinc		57.0	1.0	1		mg/kg
Lead	16.9		1		mg/kg			74.18		i		
SB-14-7			02-	01-112	32-3	01/28/02	Solid	01/28/02	01/29/02	1	20128	les8
mment(s):	Mercury was analyz	ed on 1/28/02	7:12:3	2 PM w	vith batch	020128lcs5		······································				
arameter	Resu	II RL	OF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		0.0353	0.0835	1	J	mg/kg
Arsenic	0.3	3 0.750	1	7	mg/kg	Molybdenum		0.0662	0.250	1	1	mg/kg
Barium	38.2	0.5	1		mg/kg	Nickel		2.51	0.25	1		mg/kg
Beryllium	0.0	95 0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.0	51 0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)		the state of the s	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	2.6	12	1		mg/kg	Vanadium		8.58	0.25	1		mg/kg
Copper	3.4	100000000000000000000000000000000000000	1		mg/kg	Zinc		19.9	1.0	1		mg/kg
Lead	1.0		1		mg/kg			1997	3.2			
SB-19-0.5			02	01-113	32-6	01/28/02	Solid	01/28/02	01/29/02	1	20126	lica8
Comment(s):	Mercury was analyz							4377.0	3			- CC 3/10
Parameter	Rest	III RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		ND	0.0835	1		mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		0,0691	0,250	1		mg/kg
Barium	80.1	0.5	1		mg/kg	Nickel		6.99	0.25	1		mg/kg
Beryllium	0.2	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.2	75 0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	9.0	0.25	1		mg/kg	Thailium		ND	0.750	1		mg/kg
Cobatt	7.0	2 0.25	1		mg/kg	Vanadium		23.6	0.2	1		mg/kg
Copper	8.7	0.50	1		mg/kg	Zinc		39.3	1.0	1		mg/kg
Lead	4.1	284038	1		mg/kg				0.00			



DF - Dilution Factor .

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240

Date Received:

01/28/02

Work Order No:

02-01-1132

Long Beach, CA 90802-4432

Preparation:

Total Digestion

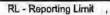
Method:

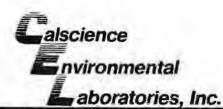
EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

Page 2 of 3

Client Sample Nu	mber			Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bate	ch ID
SB-19-7			02-	01-113	2-7	01/28/02	Solid	01/28/02	01/29/02	020128	ics8
Comment(s):	Mercury was analyzed or	1/28/02 7	:18:40	PMw	ith batch	020128lcs5					
Parameter	Result	RL	DE	Qual	<u>Units</u>	<u>Parameter</u>		Result	RL	DF Qual	<u>Units</u>
Antimony	ND	0.750	1		mg/kg	Mercury		ND	0.0835	1	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1	mg/kg
Barium	92.2	0.5	1		mg/kg	Nickel		8.04	0.25	1	mg/kg
Beryllium	0.197	0.250	1	J	mg/kg	Selenium		NO	0.750	1	mg/kg
Cadmium	0.285	0.500	1	J	mg/kg	Silver		ND	0.250	1	mg/kg
Chromium (Total)	11.2	0.2	1		mg/kg	Thallium		ND	0.750	1	mg/kg
Cobalt	7.38	0.25	1		mg/kg	Vanadium		23.6	0.2	1	mg/kg
Copper	8.64	0,50	1		mg/kg	Zinc		37.9	1.0	1	mg/kg
Lead	2.08	0.50	1		mg/kg					N.	
SB-34-20			02-	01+113	2-10	01/28/02	Solid	01/28/02	01/29/02	020128	ics8
mmenl(s):	Mercury was analyzed or	1/28/02 7	:21:39	PMw	ith batch	020128lcs5					
arameter	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		NO	0.0835	1	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		0.964	0.250	1	mg/kg
Barium	73.5	0.5	1		mg/kg	Nickel		6.39	0.25	1	mg/kg
Beryllium	0.161	0.250	1	J	mg/kg	Selenium		ND	0.750	1	mg/kg
Cadmium	0,203	0.500	1	J	mg/kg	Silver		ND	0.250	1	mg/kg
Chromium (Total)	12.7	0.2	1		mg/kg	Thallium		ND	0.750	1	mg/kg
Cobalt	5.70	0.25	1		mg/kg	Vanadium		18.4	0.2	1	mg/kg
Copper	8.37	0.50	1		mg/kg	Zinc		30.5	1.0	1	mg/kg
Lead	2.50	0.50	1		mg/kg						
SB-34-30			02-	01-113	12-11	01/28/02	Solid	01/28/02	01/29/02	020128	lics8
Comment(s):	Mercury was analyzed o	n 1/28/02 7	7:24:3								
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		ND	0.0835	1	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		0.0785	0.250	1 1	mg/kg
Barium	145	0.500	1		mg/kg	Nickel		9.33	0.25	1	mg/kg
Beryllium	0,161	0.250	1	J	mg/kg	Selenium		ND	0.750	1	mg/kg
Cadmium	0.493	0.500	1	J	mg/kg	Silver		ND	0.250	1	mg/kg
Chromium (Total)	13.5	0.2	1		mg/kg	Thallium		ND	0.750	1	mg/kg
Cobalt	10.1	0.2	1		mg/kg	Vanadium		25.0	0.2	1	mg/kg
Copper	15.8	0.5	1		mg/kg	Zinc		38.6	1.0	1	mg/kg
Lead	1.34	0.50	1		mg/kg						200





ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/28/02

Work Order No:

02-01-1132

Preparation:

Total Digestion

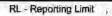
Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

Page 3 of 3

Client Sample Nu	mber			Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bato	th ID
SB-21-7	in the plant		02-	01-113	2-14	01/28/02	Solid	01/28/02	01/29/02	020128	icsB
Comment(s):	Mercury was analyzed or	1/28/02 7	:33:44	PMw	ith batch	020128lcs5					
Parameter	Result	RL	DE	Qual	<u>Units</u>	Parameter		Result	RL	DF Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury		ND	0.0835	1	mg/kg
Arsenic	0.496	0.750	1	J	mg/kg	Molybdenum		1.53	0.25	1	mg/kg
Barium	81.4	0.5	1		mg/kg	Nickel		6.77	0.25	1	mg/kg
Beryllium	0.186	0.250	1	1	mg/kg	Selenium		ND	0.750	1	mg/kg
Cadmium	0.502	0.500	1		mg/kg	Silver		ND	0.250	1	mg/kg
Chromium (Total)	18.1	0.2	1		mg/kg	Thallium		ND	0.750	1	mg/kg
Cobalt	5.92	0.25	1		mg/kg	Vanadium		22.0	0.2	1	mg/kg
Copper	9.90	0,50	1		mg/kg	Zinc		38.1	1.0	1	mg/kg
Lead	39,3	0.5	1		mg/kg						
Method Blank			099	-04-00	7-1,296	NA	Solid	01/28/02	01/28/02	020128	ics5
arameter	Result	RL	DF	Qual	<u>Units</u>						
Mercury	ND	0.0835	1		mg/kg						
Method Black			097	-01-00	72-3,080	N/A	Solid	01/28/02	01/29/02	020128	lcs8
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qual	Units
Antimony	ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1	mg/kg
Arsenic	ND	0.750	1		mg/kg	Nickel		ND	0.250	1	mg/kg
Barium	ND	0.500	1		mg/kg	Selenium		ND	0.750	1	mg/kg
Beryllium	ND	0.250	1		mg/kg	Silver		ND	0.250	1	mg/kg
Cadmium	ND	0.500	1		mg/kg	Thallium		ND	0.750	1	mg/kg
Chromium (Total)) ND	0.250	1		mg/kg	Vanadium		ND	0.250	1	mg/kg
Cobalt	0.0138	0.250	1	3	mg/kg	Zinc		ND	1.00	1	mg/kg
Conner	ND	0.500	4		ma/ka	Lead		ND	0.500	1	ma/kc



DF - Dilution Factor

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

01/28/02

Work Order No: Preparation:

02-01-1132 **EPA 3545**

Method:

EPA 8081A/8082

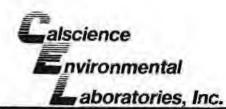
Project: LAUSD-East Valley M.S. / 47127

Page 1 of 1

Client Sample Number				Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	ch ID
SB-21-7			02-	01-113	2-14	01/28/02	Solid	01/28/02	01/29/02	0	20128	3
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL.	DF	Qual	Units
Alpha-BHC	ND	5.0	1		ug/kg	4,4'-DDT		ND	5.0	1		ug/kg
Gamma-BHC	ND	5.0	1		ug/kg	Endosulfan Sulf	ate	ND	5.0	-1		ug/kg
Beta-BHC	ND	5.0	1		ug/kg	Methoxychior		ND	5.0	1		ug/kg
Heptachlor	ND	5.0	1		ug/kg	Chlordane		ND	50	1		ug/kg
Delta-BHC	ND	5.0	1		ug/kg	Toxaphene		ND	100	1		ug/kg
Aldrin	ND	5.0	1		ug/kg	Aroclar-1016		ND	50	1		ug/kg
Heptachlor Epoxide	ND	5.0	1		ug/kg	Aroclor-1221		ND	50	1		ug/kg
Endosulfan I	ND	5.0	1		ug/kg	Aroclor-1232		ND	50	1		ug/kg
Dieldrin	ND	5.0	1		ug/kg	Aroclor-1242		ND	50	1		ug/kg
4,4'-DDE	ND	5.0	1		ug/kg	Aroclor-1248		ND	50	1		ug/kg
1rin	ND	5.0	1		ug/kg	Aroclor-1254		ND	50	1		ug/kg
in Aldehyde	ND	5.0	1		ug/kg	Aroclor-1260		ND	50	1		ug/kg
+.+'-DDD	ND	5.0	1		ug/kg	Aroclor-1262		ND	50	1		ug/kg
Endosulfan II	ND	5.0	1		ug/kg	Endrin Ketone		ND	5.0	1		ug/kg
Surrogates:	REC (%)	Control	,	Qual	11,00	Surrogates:		REC (%)	Control		Qual	ugrig
Decachlorobiphenyl	77	<u>Limits</u> 50-130				2,4,5,6-Tetrachi	oro-m-Xylene	77	<u>Limits</u> 50-130			
Method Blank		37	095	-01-01	4-2,370	N/A	Solid	91/28/02	01/29/02	. 0	20128	3
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Alpha-BHC	ND	5.0	1		ug/kg	4.4'-DDT		ND	5.0	1		ug/kg
Gamma-BHC	ND	5.0	1		ug/kg	Endosulfan Sulf	fate	ND	5.0	1		ug/kg
Beta-BHC	ND	5.0	1		ug/kg	Methoxychlor	79.20	ND	5.0	1		ug/kg
Heptachlor	ND	5.0	1		ug/kg	Chlordane		ND	50	1		ug/kg
Delta-BHC	ND	5.0	1		ug/kg	Toxaphene		ND	100	1		ug/kg
Aldrin	ND	5.0	1		ug/kg	Aroclor-1016		ND	50	1		ug/kg
Heptachlor Epoxide	ND	5.0	1		ug/kg	Aroclor-1221		ND	50	1		ug/kg
Endosulfan I	ND	5.0	1		ug/kg	Aroclor-1232		ND	50	1		ug/kg
Dieldrin	ND	5.0	1		ug/kg	Aroclor-1242		ND	50	1		ug/kg
4,4'-DDE	ND	5.0	1		ug/kg	Araclor-1248		ND	50	1		ug/kg
Endrin	ND	5.0	1		ug/kg	Aroclor-1254		ND	50	1		ug/kg
Endrin Aldehyde	ND	5.0	1		ug/kg	Aroclor-1260		ND	50	1		ug/kg
4,4'-DDD	ND	5.0	1		ug/kg	Aroclor-1262		ND	50	- 1		ug/kg
Endosulfan II	ND	5.0	1		ug/kg	Endrin Ketone		ND	5.0	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qua	0.00	Surrogates:		REC (%)	Control		Qual	-aa
Decachlorobiphenyl	75	50-130				2,4,5,6-Tetrachi	loro-m-Xylene	76	50-130			

RL - Reporting Limit ,

DF - Dilution Factor ,



ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

02-01-1132 EPA 3545

Method:

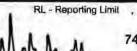
EPA 8082

01/28/02

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl umber	ė	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Ba	itch ID
\$8-14-0,5			02-	01-113	2-2	01/28/02	Solid	01/28/02	01/29/02	0201	283
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qua	Units
Araclor-1016	ND	50	1		ug/kg	Aroclor-1248		ND	50	1	ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254		ND	50	1	ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260		ND	50	1	ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262		ND	50	1	ug/kg
Surrogates:	REC (%)	Control		Qual		Surrogates:		REC (%)	Control	Qui	
Decachlorobiphenyl	87	50-130				2,4,5,6-Tetrach	loro-m-Xylene	87	50-130		
SB-14-7		yargili.	02-	01-113	2-3	01/28/02	Salid	01/28/02	01/29/02	0201	183
ameter	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF Qua	Units
octor-1016	ND	50	1		ug/kg	Aroclor-1248		ND	50	1	ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254		ND	50	1	ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260		ND	50	1	ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262		ND	50	1	ug/kg
Surrogates:	REC (%)	Control		Qual		Surrogates:		REC (%)	Control	Qu	<u>al</u>
Decachlorobiphenyl	84	50-130			Virginia.	2,4,5,6-Tetrach	loro-m-Xylene	81	50-130		
SB-34-30	201		02-	01-113	2-11	01/28/02	Solid	01/28/02	01/29/02	0201	283
Parameter .	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qua	units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248		ND	50	1	ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254		ND	50	1	ug/kg
Arodor-1232	ND	50	1		ug/kg	Aroclor-1260		ND	50	1	ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262		ND	50	1	ug/kg
Surrogates;	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits	Qu	A STATE OF
Decachlorobiphenyl	85	50-130				2,4,5,6-Tetrach	loro-m-Xylene	84	50-130		



DF - Dilution Factor ,

ANALYTICAL REPORT

 Earth Tech
 Date Received:
 01/28/02

 100 West Broadway, Suite 240
 Work Order No:
 02-01-1132

 Long Beach, CA 90802-4432
 Preparation:
 EPA 3545

 Method:
 EPA 8082

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number			12000	Sampl ımber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
Method Blank			099	-07-00	9-25	N/A	Solid	01/28/02	01/29/02	0	20128	3
<u>Parameter</u>	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
Arodor-1016	ND	50	1		ug/kg	Aroclor-1248		ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254		ND	50	1		ug/kg
Aroclor-1232	ND	50	- 5		ug/kg	Aroclor-1260		ND	50	1		ug/kg
Aroclar-1242	ND	50	1		ug/kg	Aroclor-1262		ND	50	1		ug/kg
Surrogates:	REC (%)	Control		Qual		Surrogates:		REC (%)	Control Limits		Qual	1000
Decachlorobiphenyl	85	50-130				2,4,5,6-Tetrachi	loro-m-Xylene	85	50-130			

RL - Reporting Limit ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method:

02-01-1132 EPA 3545 EPA 8270C

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Client Sample Number			Lab S Nur	ample nber	3	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th 10
SB-14-0.5		doc.	02-0	1-113	2-2	01/28/02	Solid	01/28/02	01/29/02	02	20128	9
Parameter	Result	RL	DF :	Qual	Units	Parameter		Result	RL	DE	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	3	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1.3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	· ribity. Ebiot	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
'(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	4		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	1		mg/kg
Vitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	4		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	4		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	zilor	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzolc Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alata	ND	0.50	+		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	alate	ND	0.40	4		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	4		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg			ND	0.40	1		mg/kg
Naphthalene	ND	0.40	4			Pyrene Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.40	4		mg/kg		ath alata	ND	0.50	1		
	ND		4		mg/kg	Butyl Benzyl Pl			0.50	1		mg/kg
Hexachloro-1,3-Butadiene		0.50	4		mg/kg	3,3'-Dichlorobe		ND				mg/kg
4-Chloro-3-Methylphenol	ND	0.50	4		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhexy	n) Phinalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	1000			mg/kg	Chrysene	ataka:	ND	0.40	7		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth		ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	3		mg/kg	Benzo (k) Fluor		ND	0.40			mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	-		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50			mg/kg	Indena (1,2,3-c	Action of the contract of the	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar	The second second	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,l) P	eryiene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	Acres Co.						
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits	9	Qual	
2-Fluorophenol	89	31-142				Phenol-d6		93	30-136			
obenzene-d5	86	28-139				2-Fluorobipher	lyl .	90	33-144			
6-Tribromophenol	90	24-152				p-Terphenyl-d1	14	91	23-160			

RL - Reporting Limit

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method:

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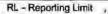
01/28/02

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Client Sample Number				ampl mber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bate	ch ID
SB-14-7			02-0	1-113	2-3	01/28/02	Solid	01/28/02	01/29/02	0	20128	19
Parameter	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	int	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	5,1	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
(2-Chlorolsopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0,50	1		mg/kg
-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	1		mg/kg
Vitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe	enol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	9		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pl	nthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe	nzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth	racene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene		ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo	ranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar	nthracene	ND	0.40	1		mg/kg
3-Nitroanlline	ND	0.50	1		mg/kg	Benzo (g,h,l) P		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	***************************************	- A-2-0-1					
Surrogates:	REC (%)	Control Limits		Qual	100 1100	Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	77	31-142				Phenol-d6		81	30-136			
obenzene-d5	75	28-139				2-Fluoroblphen	rvl	82	33-144			
,6-Tribromophenol	82	24-152				p-Terphenyl-d1		83	23-160			



DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

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Method: EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
SB-19-0.5		1.	02-0	31-113	2-5	01/26/02	Solid	01/28/02	01/29/02	0;	20128	9
Parameter	Result	RL	DE	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ne	ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	te	ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl			0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	A TOTAL STATE	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroanfline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
(2-Chlorolsopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	ethylphenol	ND	2.5	1		mg/kg
Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe	Alternative State of the Control of	ND	0.50	1		mg/kg
N-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop	henol	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl		ND	0,50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe	enol	ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	*		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pf	nthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	- 3		mg/kg	3,3'-Dichlorobe	nzidine	ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth	racene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex)	(I) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene		ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth		ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor	ranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo	ranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Oimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c	d) Pyrene	ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg							
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenoi	87	31-142				Phenol-d6		90	30-136			
obenzene-d5	84	28-139				2-Fluorobiphen	yl	89	33-144			
,6-Trlbromophenol	86	24-152				p-Terphenyl-d1		89	23-160			

RL - Reporting Limit

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/28/02 02-01-1132 EPA 3545

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

Page 4 of 8

Client Sample Number				Sampl Imber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bat	ch ID
SB-19-7			02-	01-113	12-7	01/28/02	Solid	01/26/02	01/29/02	020120	19
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	oi .	ND	2.5	1	mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	X-5	ND	0.50	1	mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthalat		ND	0.50	1	mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl-		ND	0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ND	0.40	1	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	-1	mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/kg
(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	ethylphenol	ND	2.5	1	mg/kg
Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodipher		ND	0.50	1	mg/kg
-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1	mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl			0.50	1	mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	4	mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1	mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1	mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1	mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	state	ND	0.50	1	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	arato	ND	0.40	4	mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1	mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1	mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1	mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Ph	othalate	ND	0.50	1	mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	4		mg/kg	3,3'-Dichlorobe		ND	0.50	1	mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	4	mg/kg
2-Methylnaphthalene	ND	0.40	4		mg/kg	Bis(2-Ethylhex)		ND	0.50	1	mg/kg
1-Methylnaphthalene	ND	0.40	4		mg/kg	Chrysene	ny i minimizato	ND	0.40	1	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1	mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	1	mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluor	ALTERNATION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PER	ND	0.40	1	mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1	mg/kg
Dimethyl Phthalate	ND	0.50	4		mg/kg	Indeno (1,2,3-c		ND	0.40	1	mg/kg
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ar		ND	0.40	4	mg/kg
3-Nitroaniline	ND	0.50	4		mg/kg	Benzo (g,h,i) P		ND	0.40	1	mg/kg
Acenaphthene	ND	0.40	1		mg/kg	Delize (girin) F	or yours	1113	0.79	3	mging
Surrogates:	REC (%)	Control		Qua		Surrogates:		REC (%)	Control	Qua	1
2 Elyaconhagai	00	Limits				Dhonet de		OF.	Limits		
2-Fluorophenol	92	31-142				Phenol-d6		95	30-136		
obenzene-d5	87	28-139				2-Fluorobiphen		93	33-144		
,6-Tribromophenol	91	24-152				p-Terphenyl-d1	4	92	23-160		

RL - Reporting Limit ,

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240

Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation: 01/28/02 02-01-1132

Method:

EPA 3545 EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number			Lab S Nur	ample nber	3	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	th ID
SB-34-20	7-5		02-0	1-113	2-10	01/28/02	Solid	01/28/02	01/29/02	0	20128	9
Parameter	Result	RL	DF :	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1-		mg/kg	2,4-Dinitrophen	iol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol	31	ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenal	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Oichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
(2-Chlorolsopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe	ALCOHOL MICHAEL CONTRACTOR	ND	0.50	1		mg/kg
Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro	The state of the s	ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny	CONTRACTOR OF THE PARTY OF		0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene		ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroanlline	ND	0.50	1		mg/kg	Butyl Benzyl Pl	hthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe	nzidine	ND	0.50	1		mg/kg
4-Chlora-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth	racene	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex	yl) Phthalate	ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene		ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	nalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo	ranthene	ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluo	ranthene	ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre	ne	ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c	c,d) Pyrene	ND	0.40	1		mg/k
Acenaphthylene	ND	0.40	1		mg/kg	Dibenz (a,h) Ai		ND	0.40	1		mg/k
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg	A STATE OF THE PARTY OF	al al					
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits	Ų.	Qual	
2-Fluorophenol	79	31-142				Phenol-d6		82	30-136			
obenzene-d5	76	28-139				2-Fluorobipher	lyi	82	33-144			
,6-Tribromophenol	78	24-152				p-Terphenyl-d1	* /	81	23-160			



DF - Dilution Factor

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

02-01-1132 EPA 3545

01/28/02

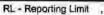
Method:

: EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sampl umber	е	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	C Bato	h ID
SB-34-30			02-	01-113	2-11	01/28/02	Solid	01/28/02	01/29/02	0	20128	9
Parameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DE	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitropher	iol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1.		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chloropheny		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene		ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
'2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1		mg/kg
Nethylphenol	ND	0.50	1		mg/kg	N-Nitrosadiphe		ND	0.50	1		mg/kg
Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1		mg/kg
Hexachloroethane	ND	0.50	1		mg/kg	4-Bromopheny			0.50	1		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben		ND	0.50	1		mg/kg
sophorone	ND	0.50	1		mg/kg	Pentachloroph		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene		ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	raidio.	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl P	hthalate	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphtnalene	ND	0,40	1		mg/kg	Bis(2-Ethylhex		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	Jil i in initiality	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	nalate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluo		ND	0.40	1		mg/kg
2-Chloronaphthelene	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		ND	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	4		mg/kg	Dibenz (a,h) A	A CONTRACTOR OF THE PARTY OF TH	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	4		mg/kg	Benzo (g,h,i) F		ND	0.40	4		mg/kg
Acenaphthene	ND	0.40	4		mg/kg	Petito (8/1/1)	cijiciic	140	0,40			angin)
Surrogates:	REC (%)	Control		Qua		Surrogates:		REC (%)	Control Limits	0	Qual	
2-Fluorophenol	84	Limits 31-142				Phenol-d6		89	30-136			
2-riodiophenol obenzene-d5	81	28-139				2-Fluorobipher		88	33-144			
i-Tribromophenol												
a-1 noromophenoi	85	24-152				p-Terphenyl-d	14	88	23-160			



DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation:

02-01-1132 **EPA 3545**

01/28/02

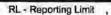
Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

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Client Sample Number				Sample umber	В	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	Bato	h ID
SB-21-7			02-	01-113	2-14	01/28/02	Solid	01/28/02	01/29/02	07	20128	9
<u>Parameter</u>	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DE	Qual	<u>Units</u>
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	iol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue		ND	0.50	1		mg/kg
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala		ND	0.50	1		mg/kg
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	a visital and a	ND	0.40	1		mg/kg
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1		mg/kg
'(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-M	ethylohenol	ND	2.5	1		mg/kg
Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodiphe		ND	0.50	1		mg/kg
v-Nitroso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichloro		ND	0.50	1		mg/kg
Hexachloroethane	NO	0.50	1		mg/kg	4-Bromopheny			0.50	3		mg/kg
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben	The state of the s	ND	0.50	1		mg/kg
Isophorone	ND	0.50	1		mg/kg	Pentachiorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	Sito!	ND	0.40	1		mg/kg
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alata	ND	0.50			mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	lalato	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	4		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Pi	hthalata	ND	0.50	1		mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth		ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	4					NO	0.50			mg/kg
1-Methylnaphthalene	ND	0.40	1		mg/kg	Bis(2-Ethylhex) Chrysene	yı) Pılmalate	ND	0.30	1		
Hexachlorocyclopentadiene	ND	100	1		mg/kg		nalata		0.40	1		mg/kg
	ND	1.5			mg/kg	Di-n-Octyl Phth Benzo (k) Fluo		ND ND	0.40	1		mg/kg
2,4,5-Trichlorophenol 2-Chloronaphthalene		0.50	1		mg/kg	the state of the s			0.40	- 0		mg/kg
	ND	0.50	1		mg/kg	Benzo (b) Fluo		ND		1		mg/kg
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre		NO	0.35	1		mg/kg
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indeno (1,2,3-c		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	3		mg/kg	Dibenz (a,h) A		ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		mg/kg	Benzo (g,h,i) P	erylene	ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		mg/kg			Laure Marie	A Second		3.0	
Surrogates;	REC (%)	Control Limits		<u>Oual</u>		Surrogates:		REC (%)	Control Limits		Qual	
2-Fluorophenol	22	31-142		2		Phenol-d6		68	30-136			
obenzene-d5	79	28-139				2-Fluorobipher	nyt	84	33-144			
8-Tribromophenal	0	24-152		2		p-Terphenyl-d1	7	82	23-160			



DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

Method:

02-01-1132 EPA 3545

01/28/02

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

Page 8 of 8

Client Sample Number	lient Sample Number		Lab Sample Number		Date Collected	Matrix	Date Prepared	Date Analyzed	QC	Batch ID
Method Blank			099-	04-010-1,181	N/A	Solid	01/26/02	01/29/02	020	1289
Parameter	Result	RL	DF :	Qual Units	Parameter		Result	RL	DF Q	ual Units
N-Nitrosodimethylamine	ND	0.50	1	mg/kg	2,4-Dinitropher	iol	ND	2.5	1	mg/kg
Aniline	ND	0.50	1	mg/kg	4-Nitrophenol		ND	0.50	1	mg/kg
Phenol	ND	0.50	1	mg/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1	mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1	mg/kg	2,6-Dinitrotolue		ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1	mg/kg	Diethyl Phthala		ND	0.50	1	mg/kg
1,4-Dichlorobenzene	NO	0.50	1	mg/kg	4-Chloropheny			0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1	mg/kg	Fluorene	17 77 ST 14 1 ST 15 15 15 15 15 15 15 15 15 15 15 15 15	ND	0.40	1	mg/kg
1,2-Dichlorobenzene	ND	0.50	1	mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1	mg/kg	Azobenzene		ND	0.50	1	mg/kg
'2-Chloroisopropyl) Ether	ND	0.50	1	mg/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1	mg/kg
Vethylphenol	ND	0.50	1	mg/kg	N-Nitrosodiphe		ND	0.50	1	mg/kg
v-Nitroso-di-n-propylamine	ND	0.50	1	mg/kg	2,4,6-Trichloro		ND	0.50	1	mg/kg
Hexachloroethane	ND	0.50	1	mg/kg	4-Bromopheny			0.50	1	mg/kg
Nitrobenzene	ND	2.5	1	mg/kg	Hexachloroben	A 10 A 20 A 10 A 10 A 10 A 10 A 10 A 10	ND	0.50	1	mg/kg
Isophorone	ND	0.50	1	mg/kg	Pentachlorophe		ND	2.5	1	mg/kg
2-Nitrophenol	ND	0.50	1	mg/kg	Phenanthrene		ND	0.40	1	mg/kg
2,4-Dimethylphenol	ND	0.50	4	mg/kg	Anthracene		ND	0.40	1.1	mg/kg
Benzoic Acid	ND	2.5	1	mg/kg	Di-n-Butyl Phth	alate	ND	0.50	1	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1	mg/kg	Fluoranthene	W. W. C.	ND	0.40	1	mg/kg
2,4-Dichlorophenol	ND	0.50	1	mg/kg	Benzidine		ND	10	1	mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1	mg/kg	Pyrene		ND	0.40	1	mg/kg
Naphthalene	ND	0.40	1	mg/kg	Pyridine		ND	0.50	1	mg/kg
4-Chloroaniline	ND	0.50	1	mg/kg	Butyl Benzyl Pi	hthalate	ND	0.50	1	mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1	mg/kg	3,3'-Dichlorobe		ND	0.50	1	mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1	mg/kg	Benzo (a) Anth		ND	0.40	1	mg/kg
2-Methylnaphthalene	ND	0.40	1	mg/kg	Bis(2-Ethylhex		ND	0.50	1	mg/kg
1-Methylnaphthalene	ND	0.40	1	mg/kg	Chrysene	217 7 12007-00-10-	ND	0.40	1	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1	mg/kg	Di-n-Octyl Phth	nalate	ND	0.50	1	mg/kg
2,4,5-Trichlorophenol	ND	0.50	1	mg/kg	Benzo (k) Fluo		ND	0.40	1	mg/kg
2-Chloronaphthalene	ND	0.50	1	mg/kg	Benzo (b) Fluo		ND	0.40	1	mg/kg
2-Nitroaniline	ND	0.50	1	mg/kg	Benzo (a) Pyre		ND	0.35	1	mg/kg
Dimethyl Phthalate	ND	0.50	1	mg/kg	Indeno (1,2,3-c		ND	0.40	1	mg/k
Acenaphthylene	ND	0.40	1	mg/kg	Dibenz (a,h) A		ND	0.40	1	mg/k
3-Nitroaniline	ND	0.50	1	mg/kg	Benzo (g,h,i) P		ND	0.40	1	mg/k
Acenaphthene	ND	0.40	1	mg/kg	(91.11)				8	
Surrogates:	REC (%)	Control		Qual	Surrogates:		REC (%)	Control	2	hal
2-Fluorophenol	102	31-142			Phenol-d6		104	30-136		
obenzene-d5	95	28-139			2-Fluorobipher	N/	97	33-144		
a-Tribromophenol	96	24-152			p-Terphenyl-d		98	23-160		

RL - Reporting Limit ,

DF - Dilution Factor .

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation:

01/28/02 02-01-1132 EPA 3510B

EPA 8270C

Method:

Project: LAUSD-East Valley M.S. / 47127

Page 1 of 2

Client Sample Number				Sample Imber	9	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bato	h ID
Method Blank			095	-01-00	3-917	N/A	Aqueous	01/28/02	01/30/02	020128	10
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qual	Units
N-Nitrosodimethylamine	ND	10	1		ug/L	2,4-Dinitropher	nol	ND	50	1	ug/L
Aniline	ND	10	1		ug/L	4-Nitrophenol		ND	10	1	ug/L
Phenol ,	ND	10	1		ug/L	Dibenzofuran		ND	10	1	ug/L
Bis(2-Chloroethyl) Ether	ND	25	1		ug/L	2,4-Dinitrotolue	ene	ND	10	1	ug/L
2-Chlorophenol	ND	10	1		ug/L	2,6-Dinitrotolus	ene	ND	10	1	ug/L
3-Dichlorobenzene	ND	10	1		ug/L	Diethyl Phthala	ite	ND	10	1	ug/L
,4-Dichlorobenzene	ND	10	1		ug/L	4-Chloropheny	I-Phenyl Ether	ND	10	1	ug/L
Benzyl Alcohol	ND	10	1		ug/L	Fluorene		ND	10	1	ug/L
1,2-Dichlorobenzene	ND -	10	1		ug/L	4-Nitroanillne		ND	10	1	ug/L
2-Methylphenol	ND	10	1		ug/L	Azobenzene		ND	10	1	ug/L
Bis(2-Chloroisopropyl) Ether	ND	10	1		ug/L	4,6-Dinitro-2-M	lethylphenal	ND	50	1	ug/L
3/4-Methylphenol	ND	10	1		ug/L	N-Nitrosodiphe		ND	10	1	ug/L
N-Nitroso-di-n-propylamine	ND	10	1		ug/L	4-Bromopheny	I-Phenyl Ether	ND	10	1	ug/L
-lexachloroethane	ND	10	1		ug/L	Hexachloroben	zene	ND	10	1	ug/L
Vitrobenzene	ND	25	1		ug/L	Pentachloroph	enol	ND	10	1	ug/L
sophorone	ND	10	1		ug/L	Phenanthrene		ND	10	1	ug/L
2-Nitrophenol	ND	10	1		ug/L	Anthracene		ND	10	1	ug/L
2,4-Dimethylphenol	ND	10	1		ug/L	Di-n-Butyl Phtt	nalate	ND	10	1	ug/L
Benzaic Acid	ND	50	1		ug/L	Fluoranthene		ND	10	1	ug/L
Bis(2-Chloroethoxy) Methane	ND	10	1		ug/L	Benzidine		ND	50	1	ug/L
2,4-Dichlorophenol	ND	10	1		ug/L	Pyridine		ND	10	1	ug/L
1,2,4-Trichlorobenzene	ND	10	1		ug/L	Pyrene		ND	10	1	ug/L
Naphthalene	ND	10	1		ug/L	Butyl Benzyl P	hthalate	ND	10	1	ug/L
4-Chloroanifine	ND	10	1		ug/L	3,3'-Dichlorobe	enzidine	ND	25	1	ug/L
-lexachloro-1,3-Butadiene	ND	10	1		ug/L	Benzo (a) Anth	racene	ND	10	1	ug/L
4-Chloro-3-Methylphenol	ND	10	1		ug/L	Bis(2-Ethylhex	yl) Phthalate	ND	10	1	ug/L
2-Methylnaphthalene	ND	10	1		ug/L	Chrysene		ND	10	1	ug/L
Hexachlorocyclopentadiene	ND	25	1		ug/L	Di-n-Octyl Pht	halate	ND	10	1	ug/L
2,4,6-Trichlorophenol	ND	10	1		ug/L	Benzo (k) Fluo	ranthene	ND	10	1	ug/L
2,4,5-Trichlorophenol	NO	10	1		ug/L	Benzo (b) Fluo	ranthene	ND	10	1	ug/L
2-Chloronaphthalene	ND	10	1		ug/L	Benzo (a) Pyre	ene	ND	10	1	ug/L
2-Nitroaniline	ND	10	1		ug/L	Benzo (g,h,i) F	erylene	ND	10	1	ug/L
Dimethyl Phthalate	ND	10	1		ug/L	Indeno (1,2,3-		ND	10	1	ug/L
Acenaphthylene	ND	10	1		ug/L	Dibenz (a,h) A	nthracene	ND	10	1	ug/L
3-Nitroaniline	ND	10	1		ug/L	1-Methylnapht	halene	ND	10	1	ug/L
Acenaphthene	ND	10	1		ug/L						38.
Surrogates:	REC (%)	Control Lim	its	Qual		Surrogates:		REC (%)	Control Lim	its Qual	
2-Fluorophenol	58	15-138				Phenol-d6		47	17-141		
Nitrobenzene-d5	89	56-123				2-Fluorobipher	nyl	82	45-120		
2,4,6-Tribromophenol	72	32-143				p-Terphenyl-d	14	89	46-133		

RL - Reporting Limit ,

DF - Dilution Factor ,

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation:

Method:

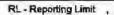
01/28/02 02-01-1132 EPA 3520B

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

Page 2 of 2

Client Sample Number				Sample Imber	9	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bate	ch ID
Equipment Blank 1-28			02-0	11-113	2-1	01/28/02	Aqueous	01/28/02	01/30/02	020121	310
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qual	Units
N-Nitrosodimethylamine	ND	10	1		ug/L	2,4-Dinitrophen	ol	ND	50	4	ug/L
Aniline	ND	10	1		ug/L	4-Nitrophenol	3.	ND	10	1	ug/L
Phenol	ND	10	1		ug/L	Dibenzofuran		ND	10	1	ug/L
Bis(2-Chloroethyl) Ether	ND	25	1		ug/L	2,4-Dinitrotolue	ne	ND	10	1	ug/L
2-Chlorophenol	ND	10	1		ug/L	2,6-Dinitrotolue		ND	10	1	ug/L
1,3-Dichlorobenzene	ND	10	1		ug/L	Diethyl Phthala		ND	10	1	ug/L
1,4-Dichlorobenzene	ND	10	1		ug/L	4-Chlorophenyl		ND	10	- 1	ug/L
Benzyl Alcohol	ND	10	1		ug/L	Fluorene	, then the man	ND	10	4	ug/L
1,2-Dichlorobenzene	ND	10	1		ug/L	4-Nitroanlline		ND	10	1	ug/L
2-Methylphenol	ND	10	1		ug/L	Azobenzene		ND	10	1	ug/L
Bis(2-Chloroisopropyl) Ether	ND	10	1		ug/L	4,6-Dinitro-2-M	ethylphenol	ND	50	4	ug/L
/4-Methylphenol	ND	10	1		ug/L	N-Nitrosodiphe		ND	10	4	ug/L
N-Nitroso-di-n-propylamine	ND	10	1		ug/L	4-Bromophenyl		ND	10	4	ug/L
Hexachloroethane	ND	10	1		ug/L	Hexachloroben	Mary Control of the C	ND	10	1	ug/l
Nitrobenzene	ND	25	1		ug/L	Pentachlorophe		ND	10	1	ug/t
sophorone	ND	10	1		ug/L	Phenanthrene	3101	ND	10	1	ug/l
2-Nitrophenol	ND	10	4		ug/L	Anthracene		ND	10	1	ug/l
2,4-Dimethylphenol	ND	10	1		ug/L	Di-n-Butyl Phth	alate	ND	10	4	ug/l
Benzoic Acid	ND	50	1		ug/L	Fluoranthene	anata.	ND	10	11	ug/l
Bis(2-Chloroethoxy) Methane	ND	10	1		ug/L	Benzidine		ND	50		ug/l
2,4-Dichlorophenol	ND	10	1		ug/L	Pyridine		ND	10	1	ug/l
1,2,4-Trichlorobenzene	ND	10	1		ug/L	Pyrene		ND	10	1	ug/L
Naphthalene	ND	10	4		ug/L	Butyl Benzyl Pl	thalate	ND	10	4	ug/l
4-Chloroaniline	ND	10	4		ug/L	3,3'-Dichlorobe		ND	25	1	ug/l
Hexachloro-1,3-Butadiene	ND	10	1		ug/L	Benzo (a) Anth		ND	10	4	ug/L
4-Chloro-3-Methylphenol	ND	10	1		ug/L	Bis(2-Ethylhex)		ND	10	1	ug/l
2-Methylnaphthalene	ND	10	1		ug/L	Chrysene	i i i i i i i i i i i i i i i i i i i	ND	10		ug/i
Hexachlorocyclopentadiene	ND	25	1		ug/L	Di-n-Octyl Phth	nalate	ND	10	1	ug/l
2,4,6-Trichlorophenol	ND	10	1		ug/L	Benzo (k) Fluo		ND	10	1	ug/l
2,4,5-Trichlorophenol	ND	10	1		ug/L	Benzo (b) Fluo		ND	10	1	ug/I
2-Chloronaphthalene	ND	10	1		ug/L	Benzo (a) Pyre		ND	10	1	ug/l
2-Nitroaniline	ND	10	1		ug/L	Benzo (g,h,i) P		ND	10	1	ug/l
Dimethyl Phthalate	ND	10	1		ug/L	Indeno (1,2,3-c		ND	10	4	ug/l
Acenaphthylene	ND	10	1		ug/L	Dibenz (a,h) Ai		ND	10	1	ug/l
3-Nitroaniline	ND	10	4		ug/L	1-Methylnaphth		ND	10	1	ug/l
Acenaphthene	ND	10	4		ug/L	. meanymapine	Teacher No.	6.10-	1.9		- H
Surrogates:	REC (%)	Control Limit	s	Qual		Surrogates:		REC (%)	Control Lim	its Qua	
2-Fluorophenol	55	15-138				Phenol-d6		41	17-141		
Vitrobenzene-d5	94	56-123				2-Fluorobiphen	yl	99	45-120		
2,4,6-Tribromophenol	101	32-143				p-Terphenyl-d1	•	100	46-133		



DF - Dilution Factor



Quality Control - Spike/Spike Duplicate

Earth Tech 100 West Broadway, Suite 240

Long Beach, CA 90802-4432

Date Received:

01/28/02

Work Order No:

02-01-1132

Preparation: Method: Total Digestion EPA 6010B

Project:

Quality Control Sample ID	Matrix	Instrument	Date Prepared	31	Date Analyzed	MS/MSD Batch Number
02-01-1116-23	Solid	ICP 3300	01/28/62		01/29/02	012802ms8
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	47	46	50-115	3	0-20	3
Arsenic	94	94	75-125	0	0-20	
Barium	104	110	75-125	2	0-20	
Beryllium	95	93	75-125	2	0-20	
Cadmium	98	96	75-125	2	0-20	
Chromium (Total)	100	100	75-125	0	0-20	
Cobalt	99	99	75-125	1	0-20	
Copper	103	106	75-125	2	0-20	
Lead	96	96	75-125	0	0-20	
Molybdenum	96	94	75-125	2	0-20	
Nicket	99	100	75-125	0	0-20	
Selenium	99	96	75-125	3	0-20	
Silver	101	100	75-125	1	0-20	
Thallium	91	89	75-125	2	0-20	
Vanadium	103	108	75-125	2	0-20	
Zinc	90	91	75-125	1	0-20	



Quality Control - Laboratory Control Sample

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No:

Preparation: Method: 01/28/02 02-01-1132 Total Digestion

EPA 6010B

Project: LAUSD-Eas

Quality Control Sample (D	Matrix	Instrument	Date Analyzed	Lab File (D	L	OS Batch Number
097-01-002-3,080	Solid	ICP 3300	01/29/02	0201284		020128ics8
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Antimony		50.0	54.7	109	80-120	
Arsenic		50.0	49.8	100	80-120	
Barium		50.0	56.0	112	80-120	
Beryllium		50.0	50.1	100	80-120	
Cadmium		50.0	54.0	108	80-120	
Chromium (Total)		50.0	53.0	106	80-120	
Cobalt		50.0	55.8	112	80-120	
Copper		50.0	50.7	101	80-120	
Lead		50.0	53.2	106	80-120	
Molybdenum		50.0	52.9	106	80-120	
Nickel		50.0	55.1	110	80-120	
Selenium		50.0	50.4	101	80-120	
Silver		25.0	25.3	101	80-120	
Thallium		50.0	53.8	108	80-120	
Vanadium		50.0	51.9	104	80-120	
Zinc		50.0	54.9	110	80-120	



Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/28/02

Work Order No:

02-01-1132

Preparation:

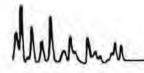
Total Digestion

Method:

EPA 7471A

Project:

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date nalyzed	MS/MSD Batch Number
SB-14-0.5	Solid	Mercury	01/28/02	0	1/28/02	012802ms5
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	113	114	76-136	1	0-16	





Quality Control - Laboratory Control Sample

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

Work Order No:

Preparation: Method:

Total Digestion EPA 7471A

Project:

LAUSD-East Valley M.S. / 47127

01/28/02

02-01-1132

Quality Control Sample ID	Matrix	Instrume	nt Date Analyzed	Lab F	ile ID L	CS Batch Number
099-04-007-1,286	Solid	Mercur	y 01/28/02	02012	84L	020128ics5
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Mercury		0.835	0.860	103	82-124	



QUALITY ASSURANCE SUMMARY

Method EPA 8081A / 8082 (Solids)

Earth Tech	Work Order No.:	02-01-1132
Page 1 of 1	Date Analyzed:	01/29/02

Surrogate Recoveries (in %)

MSD SB-21-7	<u>S1</u>	<u>S2</u>
MS SB-21-7	74	74
MSD SB-21-7	73	62
LCS 0201283	76	78

 Surrogate Compound
 Solid %REC Acceptable Limits

 S1 > Decachlorobiphenyl
 50 - 130

 S2 > 2,4,5,6-Tetrachloro-m-Xylene
 50 - 130





Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

01/28/02

Work Order No:

02-01-1132

Preparation:

EPA 3545

Method:

EPA 8081A/8082

Project:

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number	
SB-21-7	Solid	GC 16	01/28/02		01/29/02	0201113214	
Parameter .	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers	
Gamma-BHC	93	84	50-135	10	0-25		
Heptachlor	92	83	50-135	11	0-25		
Endosulfan I	74	78	50-135	4	0-25		
Dieldrin	93	83	50-135	11	0-25		
Endrin	110	96	50-135	13	0-25		
4,4'-DDT	100	91	50-135	9	0-25		



Quality Control - Laboratory Control Sample

Earth Tech 100 West Broadway, Suite 2

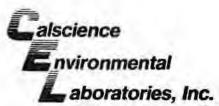
100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation: Method:

01/28/02 02-01-1132 EPA 3545 EPA 8081A/8082

Project: LAUSD-East Valley M.S. / 47127

Quality Control Sample ID Matrix		Instrument	Date Analyzed	Lab File ID	LC	LCS Batch Number	
085-01-014-2,370	Solid	GC 16	01/29/02	NONE			
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers	
Gamma-BHC		25	22	88	50-135		
Heptachlor		25	22	87	50-135		
Endosulfan I		25	21	86	50-135		
Dieldrin		25	22	87	50-135		
Endrin		25	24	95	50-135		
4,4'-DDT		25	23	91	50-135		
Aroclor-1260		100	76	76	50-135		



QUALITY ASSURANCE SUMMARY

Method EPA 8082 (Solids)

 Earth Tech
 Work Order No.:
 02-01-1132

 Page 1 of 1
 Date Analyzed:
 01/29/02

Surrogate Recoveries (in %)

 Sample Number
 S1
 S2

 LCS 0201283
 85
 82

 LCSD 0201283
 95
 89

Surrogate Compound

S1 > Decachlorobiphenyl S2 > 2,4,5,6-Tetrachloro-m-Xylene Solid %REC Acceptable Limits

50 - 130 50 - 130



Quality Control - LCS/LCS Duplicate

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/28/02 02-01-1132 EPA 3545 EPA 8082

Project:

Quality Control Sample ID	Matrix	Instrument	Date rument Prepared		Date nalyzed	LCS/LCSD Bat Number	ch
099-07-009-26	Solid	GC 10	01/28	/02 01	/29/02	0201283	
Parameter	LCS	REC LC	D %REC	%REC CL	RPD	RPD CL	Qualifiers
Araclar-1260	76		83	50-135	8	0-25	



QUALITY ASSURANCE SUMMARY

Method EPA 8270C (Solids)

Earth Tech		1377 1378 2.7		order No.:	02-01-1132	
Page 1 of 1				Analyzed:	01/29/02	
Surrogate Recoveries	(in %)					
Sample Number	<u>S1</u>	<u>S2</u>	<u>S3</u>	<u>\$4</u>	<u>S5</u>	<u>S6</u>
MS SB-34-20	99	100	90	96	94	99
MSD SB-34-20	87	90	83	91	85	92
LCS 0201289	107	106	94	97	97	102

Surrogate Compound	Solid %REC Acceptable Limits
S1 > 2-Fluorophenol	31 - 142
S2 > Phenol-d ₆ S3 > Nitrobenzene-d ₅	30 - 136 28 - 139
S4 > 2-Fluorobiphenyl	33 - 144
S5 > 2,4,6-Tribromophenol S6 > p-Terphenyl-d14	24 - 152 23 - 160



Quality Control - Spike/Spike Duplicate

Earth Tech 100 West Broadway, Suite 240

Long Beach, CA 90802-4432

Date Received:

01/28/02

Work Order No:

02-01-1132

Preparation: Method:

EPA 3545 EPA 8270C

Project:

Quality Control Sample ID	Matrix	Matrix Instrument		Date Prepared		MS/MSD Batch Number	
SB-34-20	Solid	GC/MS J	01/28/02		01/29/02	0201113210	
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CI	Qualifiers	
Phenol	100	89	53-118	12	0-19		
2-Chlorophenol	102	88	60-119	14	0-18		
1,4-Dichlorobenzene	99	86	56-131	14	0-18		
N-Nitroso-di-n-propylamine	97	86	64-123	13	0-18		
1,2,4-Trichlorobenzene	89	80	52-144	10	0-17		
4-Chloro-3-Methylphenol	94	85	45-135	10	0-20		
Acenaphthene	101	93	45-152	8	0-18		
4-Nitrophenol	91	85	45-135	7	0-20		
2,4-Dinitrotoluene	108	100	42-128	В	0-23		
Pentachlorophenol	94	84	45-135	12	0-20		
Pyrene	100	90	45-135	10	0-20		

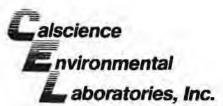


Quality Control - Laboratory Control Sample

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/28/02 02-01-1132 EPA 3545 EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

Quality Control Sample ID Matrix		Instrument	Date Analyzed	Lab File ID	LC	LCS Batch Number	
099-04-010-1,181	Solid	GC/MS J	01/29/02	29JAN004		0201289	
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers	
Phenol		10	10	102	67-118		
2-Chlorophenol		10	11	105	72-119		
1,4-Dichlorobenzene		10	10	102	69-118		
N-Nitroso-di-n-propylamine		10	10	100	70-112		
1,2,4-Trichlorobenzene		10	8.7	87	65-135		
4-Chloro-3-Methylphenol		10	9.4	94	45-135		
Acenaphthene		10	9.8	98	61-142		
4-Nitrophenol		10	9.5	95	45-135		
2,4-Dinitrotoluene		10	11	111	47-137		
Pentachlorophenol		10	9.2	92	45-135		
Pyrene		10	10	100	45-135		



QUALITY ASSURANCE SUMMARY

Method EPA 8270C (Aqueous)

Earth Tech Page 1 of 1 Surrogate Recoveries (in %)		×		Order No.: Analyzed:	02-01-1132 01/29/02		
Sample Number	<u>S1</u>	<u>S2</u>	<u>\$3</u>	<u>\$4</u>	<u>S5</u>	<u>\$6</u>	
LCS LCSD	68 75	55 58	82 84	85 86	79 86	87 87	

Surrogate Compound	Aqueous %REC Acceptable Limits
S1 > 2-Fluorophenol	15 - 138
S2 > Phenol-d ₆	17 - 141
S3 > Nitrobenzene-d ₅	56 - 123
S4 > 2-Fluorobiphenyl	45 - 120
S5 > 2,4,6-Tribromophenol	32 - 143
S6 > p-Terphenyl-d14	46 - 133



Quality Control - LCS/LCS Duplicate

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 01/28/02 02-01-1132 EPA 3510B EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

Quality Control Sample ID	Matrix	Instrument	Date Prepared	0.000.00	ate yzed	LCS/LCSD Bate Number	ch
095-01-003-917	Aqueous	GC/MS J	01/28/02	01/30	W02	02012810	
Parameter	LCS %RE	C LCSD 9	REC :	%REC CL	RPD	RPD CL	Qualifiers
Phenol	57	61		12-151	6	0-23	
2-Chiorophenol	85	93		45-135	9	0-18	
1,4-Dichlorobenzene	85	89		36-118	4	0-26	
N-Nitroso-di-n-propylamine	87	91		52-128	4	0-13	
1,2,4-Trichlorobenzene	79	80		42-120	2	0-21	
4-Chloro-3-Methylphenol	85	88		20-150	3	0-40	
Acenaphthene	88	89		51-137	1	0-11	
4-Nitrophenol	51	58		20-150	13	0-40	
2,4-Dinitrotoluene	97	100		25-143	3	0-36	
Pentachlorophenol	74	82		20-150	11	0-40	
Pyrene	89	89		45-135	0	0-20	

Calscience GLOSSARY OF TERMS AND QUALIFIERS

aboratories, Inc.

Work Order Number: 02-01-1132

Qualifier	<u>Definition</u>
3	Spike or Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and,
J	therefore, the sample data was reported without further clarification. Analyte was detected at a concentration below the reporting limit.
ND	Reported value is estimated. Not detected at indicated reporting limit.



February 21, 2002 PM07902

Steve Williams Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Subject:

Calscience Work Order No.:

Client Reference:

02-02-0045

LAUSD East Valley M.S. /47127

Dear Mr. Williams:

Calscience Environmental Laboratories, Inc. (Calscience) is pleased to submit herewith the subject analytical report. The narrative presented below summarizes our analytical effort and clarifies any quality control anomalies which appear in the report.

Sample Condition on Receipt

Three soil samples were received as part of this Work Order on February 1, 2001. All samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature of the ice-chest was measured upon arrival in the laboratory and was within acceptable limit (2°C). The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

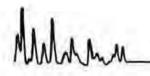
Data Summary

Data is presented on a wet weight basis.

Included in this report is the physical test that was performed by PTS Laboratories.

Holding Times

All holding time requirements were met.



Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks

The method blank data showed non-detectable levels for all constituents, with the exception of trace levels of molybdenum for batch 020201lcs6a.

Matrix Spikes

Matrix spikes (MS) and matrix spike duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits, with the exception of antimony for batch 020102ms6. The recoveries were outside the QC limits for the MS and MSD. However, the corresponding Laboratory Control Sample (LCS) recovery was within control limits, indicating a matrix interference effect. Therefore, the data is released without further action or qualification.

Laboratory Control Samples

The Laboratory Control Sample (LCS) analysis was performed at the required frequency. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for all samples were within acceptable control limits.

If there are any questions regarding this report, please contact the undersigned at (714) 895-5494.

Sincerely,

Calscience Environmental

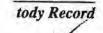
Laboratolies, Inc. Marycarol Valenzuela

Project Manager

Michael J. Crisostomo

Quality Assurance Manager





EARTH

A TUCO INTERNATIONAL LTD COMPANY

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Proj	ect Number	Project Name	Client LA	JSD					1				sis Re	quire	d			Ш				Mat	rix			
	P1121	EAST VA	LEY M	1,3	_					7	7	2		8						. 5	ample	е Туре		Sar	nple (Container
Sam	ple Custodian: (EAST VA Signature) CA	w HENC	€	Esco	wil			CTPH)	(m)	(suec.	SCA1	EKI					П					der	ı		
Item No.	Sample	Description ID Number)		Time		Comp.	PID Reading (ppm)	Label Number	2108	COlo (men	8270	PHYSICAL	POLEKUES						Soil				3261		14	
1	58-29-2		2/1/02		上		0		X	×	X		7						X				X			
2	SB-29-7		l'i		又		0		X	X	×								×				X			
3	58-29- 14	YEKAL	1		X		0					T-V	X	20					×				K		美洲	
4	1																									
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6	1																									
7		1					11.7											Ш								
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CALSCIENCE ENVIRONMENTAL LABORATORIES, INC. Sample Summary Report

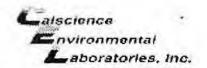
WORK ORDER #:

02-02-0045

QAPP:

0117

1 SB-29-2 S 02/01/2002 1 2 SB-29-7 S 02/01/2002 1 3 SB-29-PHYSICAL S 02/01/2002 1	ment
3 SB-29-PHYSICAL S 02/01/2002 1	



WORK	ORDER #	±· 02-	0	2	-	0	0	11	5
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SAMPLE RECEIPT FORM

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No N/A

alscience nvironmental aboratories, Inc.

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

02/01/02 Work Order No: 02-02-0045

Preparation:

Total Digestion

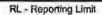
Method:

EPA 6010B / EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

Page 1 of 1

Client Sample Nu	mber			Sampl Imber	e	Date Collected	Matrix	Date Prepared	Date Analyzed	Q	Bato	h ID
SB-29-2			024	02-004	5-1	02/01/02	Solid	02/01/02	02/01/02	0	20201	lc6e
Comment(s):	Mercury was analyzed of	n 2/1/02 5:5	7:53	PM wil	th batch 0	20201lcs3						
Parameter	Result	RL	DE	Qual	Units	Parameter		Result	RL	DF	Qual	Units
Antimony	0.520	0,750	1	J	mg/kg	Mercury		0.0222	0.0835	1	j	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		0.0441	0.250	1	J	mg/kg
Barium	67.6	0.5	4		mg/kg	Nickel		5.93	0.25	1		mg/kg
Beryllium	0.220	0.250	1	1	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.172	0.500	1		mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)	8.20	0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	6.87	0.25	1		mg/kg	Vanadium		17.5	0.2	1		mg/kg
Copper	6.91	0.50	1		mg/kg	Zinc		29.7	1.0	1		mg/kg
Lead	1.99	0.50	1		mg/kg				17.00			
SB-29-7			02-	02-004	15-2	02/01/02	Solid	02/01/02	02/01/02	0	20201	lc6a
"omment(s):	Mercury was analyzed of		0:55	PM wi	th batch 0	20201lcs3						2045
ameter	Result	RL	DF	Qual	<u>Units</u>	Parameter		Result	RL	DF	Qual	Units
Antimony	0.342	0.750	1	J	mg/kg	Mercury		0.0225	0.0835	1	J	mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum		ND	0.250	1		mg/kg
Barium	51.3	0.755	1		mg/kg	Nickel		3.53	0.25	1		mg/kg
Beryllium	0.142	0.250	1	J	mg/kg	Selenium		ND	0.750	1		mg/kg
Cadmium	0.120	0.500	1	J	mg/kg	Silver		ND	0.250	1		mg/kg
Chromium (Total)		0.25	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Cobalt	3.85	0.25	1		mg/kg	Vanadium		11.7	0.2	1		mg/kg
Copper	3.86	0.50	4		mg/kg	Zinc		19.4	1.0	1		mg/kg
Lead	1.60	0.50	1		mg/kg	Lino		10.4	11.5			, mg, mg
Method Blank	1 5		098	-04-01	27-1,304	N/A	Solid	02/01/02	02/01/02	0	20201	lcs3
Parameter	Result	RL	DF	Qual	Units			3,033				
				4001								
Mercury	ND	0.0835	1		mg/kg		o Matria de la comunitación					
Method Blank			097	-01-0	02-3,094	NA	Solid	02/01/02	02/01/02	0	2020	icsa
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DE	Qual	Units
Antimony	ND	0.750	1		mg/kg	Molybdenum		0.0282	0.250	1	J	mg/kg
Arsenic	ND	0.750	1		mg/kg	Nickel		ND	0.250	1		mg/kg
Barium	ND	0.500	1		mg/kg	Selenium		ND	0.750	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Silver		ND	0.250	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Thallium		ND	0.750	1		mg/kg
Chromium (Total)		0.250	1		mg/kg	Vanadium		ND	0,250	1		mg/kg
The straight of the straight		0.250	1		mg/kg	Zinc		ND	1.00	1		mg/kg
Cobalt	ND	0.250			marka	ZHIC		1413	1.00			



alscience nvironmental aboratories, Inc.

ANALYTICAL REPORT

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received:

02/01/02

Work Order No:

02-02-0045

Ext. + D/I

Preparation: Method:

TPH - Carbon Range

Project: LAUSD-East Valley M.S. / 47127

Page 1 of 1

Client Sample Number				Sample Imber		Date Collected	Matrix	Date Prepared	Date Analyzed	QC Bate	ch ID
SB-29-2	1.19		024	02-004	5-1	02/01/02	Solid	02/01/02	02/02/02	020201	08sa
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qual	Units
C7	ND		1	r	ng/kg	C19-C20		ND		1	mg/kg
C8	ND		1		ng/kg	C21-C22		ND		1	mg/kg
C9-C10	ND		1		ng/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		1		ng/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		1	ſ	ng/kg	C29-C32		ND		1	mg/kg
C15-C16	ND		1	ſ	ng/kg	C33-C36		ND		1	mg/kg
C17-C18	ND		1	r	ng/kg	C7-C36 Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decachlorobiphenyl	122	45-149				Laboratoria de la companya de la com					
SB-29-7	177		02-	02-004	5-2	02/01/02	Solid	02/01/02	02/02/02	020201	0868
. arameter	Result	RL	DE	Qual	<u>Units</u>	<u>Parameter</u>		Result	RL	DF Qual	<u>Units</u>
C7	ND		1	1	ng/kg	C19-C20		ND		1	mg/kg
C8	ND		1		ng/kg	C21-C22		ND		1	mg/kg
C9-C10	ND		1		ng/kg	C23-C24		ND		1	mg/kg
C11-C12	ND		1	1	ng/kg	C25-C28		ND		1	mg/kg
C13-C14	ND		1		mg/kg	C29-C32		ND		1	mg/kg
C15-C16	ND		1		mg/kg	C33-C36		ND		1	mg/kg
C17-C18	ND		1		ng/kg	C7-C36 Total		ND	5.0	1	mg/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decachlorobiphenyl	110	45-149									
Method Blank			098	3-03-00.	2-1,622	N/A	Solid	02/01/02	02/01/02	020201	08sa
Parameter	Result	RL	DF	Qual	Units						
TPH as Diesel	ND	5.0	1		mg/kg						
Surrogates:	REC (%)	Control Limits		Qual	a ma						
Decachlorobiphenyl	103	45-149									

DF - Dilution Factor ,

Qual - Qualifiers

Calscience Invironmental Aboratories, Inc.

ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation:

02-02-0045 EPA 3545

02/01/02

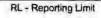
Method:

EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

Page 1 of 3

Client Sample Number	lient Sample Number			Sampl	е	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID		
\$8-29-2		16	02-	02-004	8-1	02/01/02	Solid	02/01/02	02/01/02	02013	313	
Parameter	Result	RL	DF	Qual	Units	Parameter		Result	RL	DF Qua	Units	
N-Nitrosodimethylamine	ND	0.50	1		mg/kg	2,4-Dinitrophen	al	ND	2.5	1	mg/kg	
Aniline	ND	0.50	1		mg/kg	4-Nitrophenol		ND	0.50	1	mg/kg	
Phenol	ND	0.50	1		mg/kg	Dibenzofuran		ND	0.50	1	mg/kg	
Bis(2-Chloroethyl) Ether	ND	2.5	1		mg/kg	2,4-Dinitrotolue	ne	ND	0.50	1	mg/kg	
2-Chlorophenol	ND	0.50	1		mg/kg	2,6-Dinitrotolue	ne	ND	0.50	1	mg/kg	
1,3-Dichlorobenzene	ND	0.50	1		mg/kg	Diethyl Phthala	te	ND	0.50	1	mg/kg	
1,4-Dichlorobenzene	ND	0.50	1		mg/kg	4-Chlorophenyl		ND	0.50	1	mg/kg	
Benzyl Alcohol	ND	0.50	1		mg/kg	Fluorene	10000	ND	0.40	1	mg/kg	
1,2-Dichlorobenzene	ND	0.50	1		mg/kg	4-Nitroaniline		ND	0.50	1	mg/kg	
2-Methylphenol	ND	0.50	1		mg/kg	Azobenzene		ND	0.50	1	mg/kg	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		mg/kg	4,6-Dinitro-2-Me	ethylphenol	ND	2.5	1	mg/kg	
Methylphenol	ND	0.50	1		mg/kg	N-Nitrosodipher		ND	0.50	1	mg/kg	
troso-di-n-propylamine	ND	0.50	1		mg/kg	2,4,6-Trichlorop		ND	0.50	1	mg/kg	
exachloroethane	ND	0.50	1		mg/kg	4-Bromophenyl		ND	0.50	1	mg/kg	
Nitrobenzene	ND	2.5	1		mg/kg	Hexachloroben	and the second s	ND	0.50	1	mg/kg	
sophorone	ND	0.50	1		mg/kg	Pentachlorophe	T 4 100000	ND	2.5	1	mg/kg	
2-Nitrophenol	ND	0.50	1		mg/kg	Phenanthrene	7191	ND	0.40	1	mg/kg	
2,4-Dimethylphenol	ND	0.50	1		mg/kg	Anthracene		ND	0.40	1	mg/kg	
Benzoic Acid	ND	2.5	1		mg/kg	Di-n-Butyl Phth	alate	ND	0.50	4	mg/kg	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		mg/kg	Fluoranthene	41000	ND	0.40	1	mg/kg	
2,4-Dichlorophenol	ND	0.50	1		mg/kg	Benzidine		ND	10	4	mg/kg	
1.2.4-Trichlorobenzene	ND	0.50	1		mg/kg	Pyrene		ND	0.40	4	mg/kg	
Naphthalene	ND	0.40	1		mg/kg	Pyridine		ND	0.50	4	mg/kg	
4-Chloroaniline	ND	0.50	1		mg/kg	Butyl Benzyl Ph	thalate	ND	0.50	1	mg/kg	
Hexachloro-1,3-Butadiene	ND	0.50	1		mg/kg	3,3'-Dichlorobe		ND	0.50	4	mg/kg	
4-Chloro-3-Methylphenol	ND	0.50	1		mg/kg	Benzo (a) Anth	120000000	ND	0.40	1	mg/kg	
2-Methylnaphthalene	ND	D.40	1		mg/kg	Bis(2-Ethylhex)		ND	0.50	1	mg/kg	
1-Methylnaphthalene	ND	0.40	1		mg/kg	Chrysene	() i ilulalate	ND	0.40	1	mg/kg	
Hexachlorocyclopentadiene	ND	1.5	1		mg/kg	Di-n-Octyl Phth	alate	ND	0.50	1	mg/kg	
2,4,5-Trichlorophenol	ND	0.50	1		mg/kg	Benzo (k) Fluor		ND	0.40	4	mg/kg	
2-Chloronaphthalene	ND	0.50	1		mg/kg	Benzo (b) Fluor		NO	0.40	1	mg/kg	
2-Nitroaniline	ND	0.50	1		mg/kg	Benzo (a) Pyre	Charles and Charles	ND	0.35	1	mg/kg	
Dimethyl Phthalate	ND	0.50	1		mg/kg	Indena (1,2,3-c		ND	0.40	3		
Acenaphthylene	ND	0.40	1		-			ND	0.40	1	mg/kg	
Acenaphtnyjene 3-Nitroaniline	ND		1		mg/kg	Dibenz (a,h) Ar	AND A ACCESS	A 700	0.40	1	mg/kg	
	ND	0.50			mg/kg	Benza (g,h,i) P	eryiene	ND	0.40		mg/kg	
Acenaphthene		0.40	3		mg/kg	Comments		DEC 10/1	0	*		
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:		REC (%)	Control Limits	Qu	<u>al</u>	
2-Fluorophenol	90	31-142				Phenol-d6		96	30-136			
Nitrobenzene-d5	87	28-139				2-Fluorobiphen	yl	90	33-144			
2 4,6-Tribromophenol	86	24-152				p-Terphenyl-d1	4	86	23-160			



Calscience nvironmental aboratories, Inc.

ANALYTICAL REPORT

 Earth Tech
 Date Received:
 02/01/02

 100 West Broadway, Suite 240
 Work Order No:
 02-02-0045

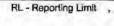
 Long Beach, CA 90802-4432
 Preparation:
 EPA 3545

 Method:
 EPA 8270C

Project: LAUSD-East Valley M.S. / 47127

Page 2 of 3

Client Sample Number			Lab Sam Numbe			Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID		
SB-29-7			02-0	2-0045	-2	02/01/02	Solid	02/01/02	02/01/02	0	20131	3
Parameter	Result	RL	DF S	Qual	Units	Parameter		Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	0.50	1	m	ng/kg	2,4-Dinitrophen	ol	ND	2.5	1		mg/kg
Aniline	ND	0.50	1	m	ig/kg	4-Nitrophenol		ND	0.50	1		mg/kg
Phenol	ND	0.50	1		ng/kg	Dibenzofuran		ND	0.50	1		mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		ng/kg	2,4-Dinitrotolue	ne	ND	0.50	1		mg/kg
2-Chlorophenol	ND	0.50	1	m	ig/kg	2,6-Dinitrotolue	ne	ND	0.50	1		mg/kg
,3-Dichlorobenzene	ND	0.50	1		ng/kg	Diethyl Phthala	te	ND	0.50	1		mg/kg
,4-Dichlorobenzene	ND	0.50	1	n	ig/kg	4-Chlorophenyl-	Phenyl Ether	ND	0.50	1		mg/kg
Benzyl Alcohol	ND	0.50	1	m	ng/kg	Fluorene	A 40 - 40 - 40 - 40 - 40 - 40 - 40 - 40	ND	0.40	1		mg/kg
,2-Dichlorobenzene	ND	0.50	1		ng/kg	4-Nitroaniline		ND	0.50	1		mg/kg
2-Methylphenol	ND	0.50	1		ng/kg	Azobenzene		ND	0.50	1		mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		ng/kg	4,6-Dinitro-2-Me	ethylphenol	ND	2.5	1		mg/kg
Methylphenol	ND	0.50	1		ng/kg	N-Nitrosodipher	Property of the second	ND	0.50	1		mg/kg
.itroso-di-n-propylamine	ND	0.50	1		ig/kg	2,4,6-Trichlorop	A STATE OF THE PARTY OF THE PAR	ND	0.50	1		mg/kg
exachloroethane	ND	0.50	1		ng/kg	4-Bromophenyl	T. Salarine	ND	0.50	1		mg/kg
Vitrobenzene	ND	2.5	4		ng/kg	Hexachloroben	the state of the s	ND	0.50	1		mg/kg
sophorone	ND	0.50	1		ng/kg	Pentachlorophe		ND	2.5	1		mg/kg
2-Nitrophenol	ND	0.50	1		ng/kg	Phenanthrene		ND	0.40	1		mg/kg
4-Dimethylphenol	ND	0.50	1		g/kg	Anthracene		ND	0.40	1		mg/kg
Benzoic Acid	ND	2.5	1		ng/kg	Di-n-Butyl Phth	alate	ND	0.50	1		mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		ng/kg	Fluoranthene	515.10	ND	0.40	1		mg/kg
2,4-Dichlorophenol	ND	0.50	1		ng/kg	Benzidine		ND	10	1		mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		ng/kg	Pyrene		ND	0.40	1		mg/kg
Naphthalene	ND	0.40	1		ng/kg	Pyridine		ND	0.50	1		mg/kg
4-Chloroaniline	ND	0.50	4		ng/kg	Butyl Benzyl Ph	othalate	ND	0.50	1		mg/kg
lexachloro-1,3-Butadiene	ND	0.50	1		ng/kg	3,3'-Dichlorobe		ND	0.50	1		mg/kg
-Chloro-3-Methylphenol	ND	0.50	1		ng/kg	Benzo (a) Anth	E-0.00 C 140 C 25	ND	0.40	1		mg/kg
2-Methylnaphthalene	ND	0.40	1		ng/kg	Bis(2-Ethylhexy		ND	0.50	1		mg/kg
1-Methylnaphthalene	ND	0.40	4		ng/kg	Chrysene	ny i minana	ND	0.40	1		mg/kg
Hexachlorocyclopentadiene	ND	1.5	1		ng/kg	Di-n-Octyl Phth	alate	ND	0.50	1		mg/kg
2,4,5-Trichlorophenol	ND	0.50	1		ng/kg	Benzo (k) Fluor		ND	0.40	1		mg/kg
2-Chloronaphthalene	ND	0.50	1		ng/kg	Benzo (b) Fluor		ND	0.40	1		mg/kg
2-Nitroaniline	ND	0.50	1		ng/kg	Benzo (a) Pyre		ND	0.35	- 1		mg/kg
Dimethyl Phthalate	ND	0.50	1		ng/kg	Indeno (1,2,3-c		ND	0.40	1		mg/kg
Acenaphthylene	ND	0.40	1		ng/kg	Dibenz (a,h) Ar	C. C	ND	0.40	1		mg/kg
3-Nitroaniline	ND	0.50	1		ng/kg	Benzo (g,h,i) P		ND	0.40	1		mg/kg
Acenaphthene	ND	0.40	1		ng/kg	Polico (Alici)	or your	140	5.40			ang
Surrogates:	REC (%)	Control Limits		Qual	פייועיי	Surrogates:		REC (%)	Control	2	Qual	
2-Fluorophenol	95	31-142				Phenol-d6		102	30-136			
Nitrobenzene-d5	91	28-139				2-Fluorobiphen	sal .	97	33-144			
2 4,6-Tribromophenol	91	24-152				p-Terphenyl-d1		95	23-160			





ANALYTICAL REPORT

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432

Date Received: Work Order No: Preparation: Method:

02-02-0045 EPA 3545 EPA 8270C

02/01/02

Project: LAUSD-East Valley M.S. / 47127

Page 3 of 3

Client Sample Number				Sample mber		Date Collected	Matrix	Date Prepared	Date Analyzed	QC E	Batch ID
Method Blank	****		099	04-010-	1,183	N/A	Solki	01/31/02	02/01/02	020	1313
Parameter	Result	RL	DE	Qual L	<u>Jnits</u>	Parameter		Result	RL	DF Q	ual Units
N-Nitrosodimethylamine	ND	0.50	1	m	g/kg	2,4-Dinitrophen	iol	ND	2.5	1	mg/kg
Aniline	ND	0.50	1		g/kg	4-Nitrophenol	21	ND	0.50	1	mg/kg
Phenol	ND	0.50	1		g/kg	Dibenzofuran		ND	0.50	1	mg/kg
Bis(2-Chloroethyl) Ether	ND	2.5	1		g/kg	2,4-Dinitrotolue	ine	ND	0.50	1	mg/kg
2-Chlorophenol	ND	0.50	1		g/kg	2,6-Dinitrotolue	ne	ND	0.50	1	mg/kg
1,3-Dichlorobenzene	ND	0.50	1		g/kg	Diethyl Phthala	te	ND	0.50	1	mg/kg
1,4-Dichlorobenzene	ND	0.50	1		g/kg	4-Chlorophenyl		ND	0.50	1	mg/kg
Benzyl Alcohol	ND	0.50	1		g/kg	Fluorene		ND	0.40	1	mg/kg
1,2-Dichlorobenzene	ND	0.50	1		g/kg	4-Nitroaniline		ND	0.50	1	mg/kg
2-Methylphenol	ND	0.50	1		g/kg	Azobenzene		ND	0.50	1	mg/kg
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		g/kg	4,6-Dinitro-2-M	ethylphenol	ND	2.5	1	mg/kg
Methylphenol	ND	0.50	1	1,810,71	g/kg	N-Nitrosodiphe	A check and a man a second	ND	0.50	1	mg/kg
troso-di-n-propylamine	ND	0.50	1		g/kg	2,4,6-Trichloro		ND	0.50	1	mg/kg
mexachloroethane	ND	0.50	1		g/kg	4-Bromopheny		ND	0.50	1	mg/kg
Nitrobenzene	ND	2.5	1		g/kg	Hexachloroben		ND	0.50	1	mg/kg
Isophorone	ND	0.50	1		g/kg	Pentachlorophe	A STATE OF THE STA	ND	2.5	1	mg/kg
2-Nitrophenol	ND	0.50	1		g/kg	Phenanthrene		ND	0.40	1	mg/kg
2,4-Dimethylphenol	ND	0.50	1	7.44	g/kg	Anthracene		ND	0.40	1	mg/kg
Benzoic Acid	ND	2.5	1	-	g/kg	Di-n-Butyl Phth	alate	ND	0.50	4	mg/kg
Bis(2-Chloroethoxy) Methane	ND	0.50	1		g/kg	Fluoranthene	LICIO I	ND	0.40	1	mg/kg
2,4-Dichlorophenol	ND	0.50	1		g/kg	Benzidine		ND	10	1	mg/kg
1,2,4-Trichlorobenzene	ND	0.50	1		g/kg	Pyrene		ND	0.40	1	mg/kg
Naphthalene	ND	0.40	1	-	g/kg	Pyridine		ND	0.50	1	mg/kg
4-Chloroaniline	ND	0.50	1		g/kg	Butyl Benzyl Pi	hthalate	ND	0.50	1	mg/kg
Hexachloro-1,3-Butadiene	ND	0.50	1	0.00	g/kg	3,3'-Dichlorobe		ND	0.50	1	mg/kg
4-Chloro-3-Methylphenol	ND	0.50	1		g/kg	Benzo (a) Anth		ND	0.40	1	mg/kg
2-Methylnaphthalene	ND	0.40	1		g/kg	Bis(2-Ethylhex		ND	0.50	1	mg/kg
1-Methylnaphthalene	ND	0.40	1		g/kg	Chrysene	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ND	0.40	1	mg/kg
Hexachlorocyclopentadiene	ND	1.5	1	130.5	g/kg	Di-n-Octyl Phth	nalate	ND	0.50	1	mg/kg
2,4,5-Trichlorophenol	ND	0.50	1	- 20	g/kg	Benzo (k) Fluo		ND	0.40	4	mg/kg
2-Chloronaphthalene	ND	0.50	1		g/kg	Benzo (b) Fluo	SANCE THE PARTY.	ND	0.40	1	mg/kg
2-Nitroaniline	ND	0.50	1		g/kg	Benzo (a) Pyre		ND	0.35	- 1	mg/kg
Dimethyl Phthalate	ND	0.50	1		g/kg	Indeno (1,2,3-0		ND	0.40	1	mg/kg
Acenaphthylene	ND	0.40	1		g/kg	Dibenz (a,h) A		ND	0.40	1	mg/kg
3-Nitroaniline	ND	0.50	1		g/kg	Benzo (g,h,i) P		ND	0.40	1	mg/kg
Acenaphthene	ND	0.40	1		g/kg	(a) (a)	3.1141.4	1.0			
Surrogates:	REC (%)	Control		Qual	grag	Surrogates:		REC (%)	Control Limits	0	ual
2-Fluorophenol	94	31-142				Phenol-d6		99	30-136		
Nitrobenzene-d5	91	28-139				2-Fluorobipher	IVI	97	33-144		
2 4,6-Tribromophenol	90	24-152				p-Terphenyl-d	5-56s	95	23-160		

RL - Reporting Limit

DF - Dilution Factor

Qual - Qualifiers



Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

02/01/02

Work Order No:

02-02-0045

Preparation:

Total Digestion

Method:

EPA 6010B

Project:

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
02-01-1333-5	Solid	ICP 3300	02/01/02		02/04/02	020102ms6
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	39	44	50-115	12	0-20	3
Arsenic	82	86	75-125	5	0-20	
Barium	80	97	75-125	7	0-20	
Beryllium	88	91	75-125	4	0-20	
Cadmium	89	93	75-125	5	0-20	
Chromium (Total)	88	94	75-125	5	0-20	
Cobalt	91	96	75-125	5	0-20	
Copper	86	93	75-125	7	0-20	
Lead	75	82	75-125	4	0-20	
Molybdenum	84	89	75-125	5	0-20	
Nickel	90	95	75-125	5	0-20	
Selenium	84	87	75-125	4	0-20	
Silver	86	91	75-125	5	0-20	
Thallium	83	87	75-125	5	0-20	
Vanadium	85	92	75-125	6	0-20	
Zinc	80	91	75-125	5	0-20	



Quality Control - Laboratory Control Sample

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No:

Preparation: Method: 02/01/02 02-02-0045 Total Digestion EPA 6010B

Project:

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LC	S Batch Number
097-01-002-3,094	Solid	ICP 3300	02/01/02	020201kc		020201lc6a
Parameter		Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Antimony		50.0	49.3	99	80-120	
Arsenic		50.0	45.8	92	80-120	
Barium		50.0	51.2	102	80-120	
Beryllium		50.0	47.9	96	80-120	
Cadmium		50.0	50.2	100	80-120	
Chromium (Total)		50.0	49.5	99	80-120	
Cobalt		50.0	52.3	105	80-120	
Copper		50.0	48.0	96	80-120	
Lead		50.0	49.1	98	80-120	
Molybdenum		50.0	48.3	97	80-120	
Nickel		50.0	51.5	103	80-120	
Selenium		50.0	46.1	92	80-120	
Sliver		25.0	23.6	94	80-120	
Thallium		50.0	48.7	97	80-120	
Vanadium		50.0	48.0	96	80-120	
Zinc		50.0	50.6	101	80-120	



Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

02/01/02

Work Order No:

02-02-0045

Preparation:

Total Digestion

Method:

EPA 7471A

Project:

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
02-01-1333-5	Salid	Merciay	02/01/02		02/01/02	020102ms3
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	121	121	76-136	0	0-16	



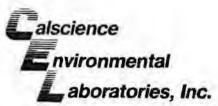
Quality Control - Laboratory Control Sample

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method:

02/01/02 02-02-0045 Total Digestion EPA 7471A

Project: LAUSD-East Valley M.S. / 47127

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-04-007-1,304	Solid	Mercury	02/01/02	020201-1.	920201ics3
Parameter		Conc Added	Conc Recovered	%Rec %	Rec CL Qualiflers
Mercury		0.835	0.892	107 E	32-124



QUALITY ASSURANCE SUMMARY

Method EPA 8015M - Carbon Chain (Solids)

 Earth Tech
 Work Order No.:
 02-02-0045

 Page 1 of 1
 Date Analyzed:
 02/01/02

Surrogate Recoveries (in %)

Sample Number	<u>S1</u>
MS 02020108ms	104
MSD 02020108ms	106
LCS 02020108sa	105

Surrogate Compound

S1 > Decachlorobiphenyl

Solid %REC Acceptable Limits

45 - 149



Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

02/01/02

Work Order No:

02-02-0045

Preparation:

Ext. + D/I

Method:

TPH - Carbon Range

Project:

Quality Control Sample ID	Matrix	Instrument	Date Prepared	-	Date Analyzed	MS/MSD Batch Number
02-02-0059-1	Solid	GC 23	02/01/02	1	02/01/02	02020108ms
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	97	99	49-139	2	0-28	





Quality Control - Laboratory Control Sample

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: 02/01/02 02-02-0045 Ext. + D/I

Method:

TPH - Carbon Range

Project: LAUSD-East Valley M.S. / 47127

Quality Control Sample ID	Matrix	Instrume	nt Date Analyzed	Lab File	ID	LCS Batch Number
098-03-002-1,622	Solid	8C 23	02/01/02	003F016	31	02020108sa
Parameter		Conc Added	Conc Recovered	%Rec	%Rec Cl	Qualifiers
TPH as Olesel		400	390	98	65-124	



QUALITY ASSURANCE SUMMARY Method EPA 8270C (Solids)

Earth Tech	E 5/5/6/	Order No.:	02-02-0045			
Page 1 of 1		Analyzed:	01/31/02			
Surrogate Recoveries	(in %)					
Sample Number	<u>S1</u>	<u>S2</u>	<u>S3</u>	<u>\$4</u>	<u>S5</u>	<u>\$6</u>
MS 020112942	85	91	79	77	79	92
MSD 020112942	86	92	84	86	82	94
LCS 0201313	91	95	86	93	87	94

Surrogate Compound	Solid %REC Acceptable Limits
S1 > 2-Fluorophenol	31 - 142
S2 > Phenol-d ₆	30 - 136
S3 > Nitrobenzene-d ₅	28 - 139
S4 > 2-Fluorobiphenyl	33 - 144
S5 > 2,4,6-Tribromophenol	24 - 152
S6 > p-Terphenyl-d14	23 - 160



Quality Control - Spike/Spike Duplicate

Earth Tech

100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received:

02/01/02

Work Order No:

02-02-0045

Preparation:

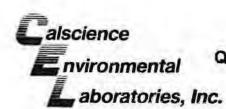
EPA 3545

Method:

EPA 8270C

Project:

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
02-01-1294-2	Solid	GCMSJ	01/31/02		01/31/02	020112942
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	97	94	53-118	4	0-19	
2-Chlorophenol	93	90	60-119	4	0-18	
1,4-Dichlorobenzene	92	90	56-131	2	0-18	
N-Nitroso-di-n-propylamine	91	88	64-123	4	0-18	
1,2,4-Trichlorobenzene	80	82	52-144	3	0-17	
4-Chloro-3-Methylphenol	86	86	45-135	0	0-20	
Acenaphthene	91	91	45-152	0	0-18	
4-Nitrophenol	86	80	45-135	7	0-20	
2,4-Dinitrotoluene	101	98	42-128	3	0-23	
Pentachlorophenol	82	75	45-135	9	0-20	
Pyrene	92	94	45-135	2	0-20	



Quality Control - Laboratory Control Sample

Earth Tech 100 West Broadway, Suite 240 Long Beach, CA 90802-4432 Date Received: Work Order No: Preparation: Method: 02/01/02 02-02-0045 EPA 3545 EPA 8270C

Project:

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File	ID LO	LCS Batch Number	
099-04-010-1,183	Solid	ССЛИБ Ј	02/01/02	01FEB01	0		
<u>Parameter</u>		Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers	
Phenol		10	9.9	99	67-118		
2-Chlorophenol		10	9.6	96	72-119		
1,4-Dichlorobenzene		10	9.8	98	69-118		
N-Nitroso-di-n-propylamine		10	9.4	94	70-112		
1,2,4-Trichlorobenzene		10	8.7	87	65-135		
4-Chloro-3-Methylphenol		10	9.3	93	45-135		
Acenaphthene		10	9.9	99	61-142		
4-Nitrophenol		10	9.2	92	45-135		
2,4-Dinitrotoluene		10	10	104	47-137		
Pentachlorophenol		10	8.6	86	45-135		
Pyrene		10	9.8	98	45-135		

alscience GLOSSARY OF TERMS AND QUALIFIERS

nvironmental Laboratories, Inc.

Work Order Number: 02-02-0045

Qualifier	<u>Definition</u>
J	Analyte was detected at a concentration below the reporting limit.
ND	Reported value is estimated. Not detected at indicated reporting limit.

PTS Laboratories

Geotechnical Services

8100 Secura Way • Santa Fe Springs • CA 90670 Phone (562) 907-3607 • Fax (562) 907-3610

February 12, 2002

Ms. Marycarol Valenzuela Calscience 7440 Lincoln Way Garden Grove, CA 92841

Re: 02-02-0045 PTS File: 32044

Dear Ms. Valenzuela:

Enclosed is final data for from your Project # 02-02-0045. All analyses were performed by applicable ASTM, EPA or API methodology. Samples will be retained for 30 days before disposal unless other arrangements are made.

We appreciate the opportunity to be of service and trust these data will prove beneficial in the development of this project. Please feel free to call myself or Larry Kunkel, District Manager, should you have any questions or require additional information.

Sincerely,

PTS Laboratories, Inc.

Rick Young

Laboratory Director

RY/vk

encl.

C ience PTS FILE N J2044

25.0 PSI CONFINING STRESS

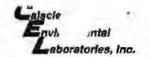
PHYSICAL PROPERTIES DATA

(METHODOLOGY: ASTM D2216, API RP40, ASTM D5084, EPA 9060B)

PROJECT NAME: N/A PROJECT NO: 02-02-0045

		SAMPLE MOISTURE DENSITY POROSITY, %Vb (2) PORE FLUID						ORE ELLID	TOTAL	NATIVE STATE EFFECTIVE PERMEABILITY	EFFECTIVE	
SAMPLE ID.			CONTENT	BULK	GRAIN		AIR	SATURA	ATIONS, % Pv (3) HYDROCARBON	CARBON mg/kg	CARBON TO WATER (5)	CONDUCTIVITY (5) (cm/s)
SB-29-Physical	N/A	٧	9.0	1.65	2.72	39.5	24.4	36.2	2.5	500	203	1.90E-04

⁽¹⁾ Sample Orientation: H = horizontal; V = vertical (2) Effective Porosity = no pore fluids in place; all interconnected pore channels; Air Filled = pore channels not occupied by pore fluids (3) Water = 0.9981 g/cc; Hydrocarbon = 0.7500 g/cc (4) Native State = As received with pore fluids in place (5) Permeability to water and conductivity measured at saturated conditions Vb = Bulk Volume, cc; Pv = Pore Volume, cc; ND = Not Detected



7440 LINCOLN WAY

GARDEN GROVE, CA 92841-1432

TEL: (714) 895-5494 . FAX: (714) 894-7501

PTS

Ø Secura Way

Santa Fe Springe, CA 90670

CHAIN	OF CU	STODY	RECORD	
DATE:	2/4	200	RECORD	
PAGE:	1	OF	1	

LABORATORY CLIENT: CALSCIENCE ENVIRONMENTAL LABS, INC.											/ NUME		P.O. NO.:							
	ADDRESS: 7440 Lincoln Way city:						02-02-0045 PROJECT CONTACT:											QUOTE N	10.:	_
Garden Grove, CA 92841							Marycarol Valenzuela SAMPLER(S): (SIGNATURE)												MAN 12	
							SAM	PLEN	2): (2)(MAIU	HE)		LAB USE ONLY							
	714-895-5494 DUND TIME	714-894-7	501																	
□sA	ME DAY 24 HR	☐ 48HR ☐ 72 H	IR D 5 DA	ys 🗆	10 DA	YS	Į.							REQ	JES	TED AN	ALYS	BIS		
	REQUIREMENTS (ADDITIONAL CO	Strain an artist										(4)			ater		13			
SPECIAL	NQCB REPORTING [_ ARCHIVE SAMP	LES UNTIL	_/_	1				0.19		2	D5084)		2	3					
									2	4	Effective Permeability water (ASTM D5084)	Ulic	O	loist	ration	ration				
Normal TAT Laboratory Contact: Rick Young									Effective Porosity	Air Filled Porosity	erme	Effective Hydraulic Conductivity (ASTM D	EPA 9060B- TOC	ASTM D2216 - Moisture Content	Pore Fluid Saturation - Water	Pore Fluid Saturation Hydrocarbon				
Please call with any questions. Thank You.										lled F	(AST	ive H	3080E	1 D22	Fluid	Fluid				
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	DATE	NG	MAT-	CONT.	Bulk Density	Grain Density	ffect	当	ffec	ffec	PA	Sonte	ore	Pore		501		-0 T/05
ONEX	SB-29-Physical		2/1/2002	T NAV) C	S	1	X	X	X	X	X	X	X	X	X	X	1	CON	HAINI	ER TYPE
	OD-25-1 Hysical		2/1/2002		Ů													-		
												7								
											7					7				
																		_		
	-																		-	
																			-	-
Relinquis	shed by: (Signature)				Receiv	ed by: (Signate	ure)	_									Date:		Time:
Relinquished by: (Signature) Received by: (Si						Signati	ure)		-	_		-	Date:	,	Time:					
Relinquis	shed by (Signature)	01			Receiv	er di (Signate	ure)	7	1	7	-					-	Date:	4	Time;
100011	2	120	1		9	Fi	w	VI	de	26	m	201	1						2	3:14



CERTIFIED HAZARDOUS WASTE TESTING MOBILE & IN HOUSE LABORATORIES

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD LOS ANGELES REGION LABORATORY REPORT FORM Laboratory Name: Centrum Analytical Laboratories, Inc. Address: 1401 Research Park Drive, Suite 100, Riverside, CA 92507 Telephone: (909) 779-0310 Laboratory Certification (ELAP) No.: 2419 **Expiration Date:** May 2002. Authorized Signature Name (Print): James M. Reed, Mobile Lab Supervisor Authorized Signature, Date: Client: Earthtech Project No: 47127/LAUSD EUMS Analytical Method: EPA 502.1 EPA 502.2 EPA 524.1 EPA 524.2 EPA 601 **EPA 624 EPA 8010** EPA 8021 **EPA 8260B** Other GCMS Date Sampled: 01/21/02 Date Received: 01/21/02 Date Reported: 01/21/02 Sample Matrix: Vapor Extraction Method: Extraction Material: Chain of Custody Received: Yes No Sample Condition: Samples were received in glass bulbs. NA Sample headspace description (%) Sample container material: Glass

(RWQCB LabForm; Ves11/92)



Reporting Unit: µg/L of Air

D	ATE AN	ALYZED	01/21/02	01/21/02	01/21/02	01/21/02	
DA	TE EXT	RACTED	NA	NA	NA	NA	
DIL	UTION	FACTOR	. 1	1	1	1	
L	AB SAN	IPLE I.D.	Amb. Blank	M2-881-1	M2-881-2	M2-881-3	
CLIE	NT SAN	IPLE I.D.	NA	SG-9-10 A	SG-9-10 B	SG-9-10 C	
COMPOUND	MDL	EQL					
Carbon Tetrachloride		1.0	ND	ND	ND	ND	
Chloroethane		1.0	ND	ND	ND	ND	
Chloroform		1.0	ND	ND	ND	ND	
Dichlorodifluoromethane		1.0	ND	ND	ND	ND	
1,1-Dichloroethane (1,1-DCA)		1.0	ND	ND	ND	ND	
1,2-Dichloroethane (1,2-DCA)		1.0	ND	ND	ND	ND	
1,1-Dichloroethylene (1,1-DCE)		1.0	ND	ND	ND	ND	
cis-1,2-Dichloroethylene		1.0	ND	ND	ND	ND	
trans-1,2-Dichloroethylene		1.0	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane		1.0	ND	ND	ND	ND	
Tetrachloroethylene (PCE)		1.0	ND	ND	ND	ND	
1,1,1-Trichloroethane (1,1,1-TCA)		1.0	ND	ND	ND	ND	
1,1,2-Trichloroethane (1,1,2-TCA)	1 1	1.0	ND	ND	ND	ND	
Trichloroethylene (TCE)		1.0	ND	ND	ND	ND	
Methylene Chloride		1.0	ND	ND	ND.	ND	
Trichlorofluoromethane		1.0	ND	ND	ND	ND	
1,1,2-Trichlorotrifluoroethane		1.0	ND	ND	ND	ND	
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND	
Benzene	0.1	0.4	ND	ND	ND	ND	
Ethylbenzene		1.0	ND	ND	ND	ND	
Toluene		2.0	ND	ND	ND	ND	
m,p-Xylenes		2.0	ND	ND	ND	ND	
o-Xylene		1.0	ND	ND	ND	ND	
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC	
Dibromofluoromethane	50	70-130	110	104	104	103	
Toluene-d8	50	70-130	95	94	98	97	
Bromofluorobenzene	50	70-130	97	93	97	95	

SPK CONC = Spiking Concentration (<= 5 x PQL); ACP % = Acceptable Range of Percent; %REC = % Recovery; J = Estimated value.

MDL = Method Detection Limit; MB = Method Blank, ND = Not Detected (Below MDL); NA = Not Analyzed; EQL = Estimated Quantitation Limit.



Reporting Unit: µg/L of Air

D	ATE AN	ALYZED	01/21/02	01/21/02	01/21/02	01/21/02
DA	TE EXT	RACTED	NA	NA	NA	NA
DIL	UTION	FACTOR	- 1	1	1	1
	AB SAN	MPLE I.D.	M2-881-4	M2-881-5	M2-881-6	M2-881-7
CLIE	NT SAN	MPLE I.D.	SG-9-20	SG-15-10	SG-15-20	SG-15-20 D
COMPOUND	MDL	EQL				
Carbon Tetrachloride		1.0	ND	ND	ND	ND
Chloroethane		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
Dichlorodifluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	-	1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1.0	ND	ND	ND	ND
Tetrachloroethylene (PCE)		1.0	ND	1.1	1.3	1.2
1,1,1-Trichloroethane (1,1,1-TCA)		1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1.0	ND	ND	ND	ND
Trichloroethylene (TCE)		1.0	ND	ND	ND	ND
Methylene Chloride	TEST	1.0	ND	ND	ND	ND
Trichlorofluoromethane	0	1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane		1.0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene	1150	1.0	ND	ND	ND	ND
Toluene		2.0	ND	ND	ND	ND
m,p-Xylenes	9	2.0	ND	ND	ND	ND
o-Xylene	No.	1.0	ND	ND	ND	ND
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	103	105	104	107
Toluene-d8	50	70-130	95	96	94	95
Bromofluorobenzene	50	70-130	94	97	97	98



Reporting Unit: µg/L of Air

D	ATE AN	ALYZED	01/21/02	01/21/02	01/21/02	01/21/02
DA	TE EXT	RACTED	NA	NA	NA	NA
DIL	UTION	FACTOR		1	1	1
	AB SAN	MPLE I.D.	M2-881-8	M2-881-9	M2-881-10	M2-881-11
CLIE	NT SAN	IPLE I.D.	SG-11-9	SG-10-10	SG-10-20	SG-8-10
COMPOUND	MDL	EQL				
Carbon Tetrachloride		1.0	ND	ND	ND	ND
Chloroethane	1 -7	1.0	ND	ND	ND	ND
Chloroform	- 1	1.0	ND	ND	ND	ND
Dichlorodifluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	(in 11)	1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene	1	1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1.0	ND	ND	ND	ND
Tetrachloroethylene (PCE)		1.0	1.5	ND	1.0	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1.0	ND	ND	ND	ND
Trichloroethylene (TCE)		1.0	ND	ND	ND	ND
Methylene Chloride	15-00	1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	100	1.0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
Toluene		2.0	ND	ND	ND	ND
m,p-Xylenes		2.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND	ND	ND
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	109	105	110	107
Toluene-d8	50	70-130	96	96	97	96
Bromofluorobenzene	50	70-130	96	95	96	96



Reporting Unit: µg/L of Air

D	ATE AN	ALYZED	01/21/02	01/21/02	01/21/02	
DA	TE EXT	RACTED	NA	NA	NA	
DIL	UTION	FACTOR	1	1	1	
	AB SAN	IPLE I.D.	M2-881-12	M2-881-13	M2-882-14	
CLIE	NT SAN	IPLE I.D.	SG-8-20	SG-14-20	SG-14-10	
COMPOUND	MDL	EQL				
Carbon Tetrachloride		1.0	ND	ND	ND	
Chloroethane		1.0	ND	ND	ND	
Chloroform		1.0	ND	ND	ND	
Dichlorodifluoromethane		1.0	ND	ND	ND	
1,1-Dichloroethane (1,1-DCA)		1.0	ND	ND	ND	
1,2-Dichloroethane (1,2-DCA)		1.0	ND	ND	ND	
1,1-Dichloroethylene (1,1-DCE)		1.0	ND	ND	ND	
cis-1,2-Dichloroethylene		1.0	ND	ND	ND	
trans-1,2-Dichloroethylene		1.0	ND	ND	ND	
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	
1,1,2,2-Tetrachloroethane		1.0	ND	ND	ND	
Tetrachloroethylene (PCE)		1.0	ND	ND	ND	
1,1,1-Trichloroethane (1,1,1-TCA)		1.0	ND	ND	ND	
1,1,2-Trichloroethane (1,1,2-TCA)		1.0	ND	ND	ND	
Trichloroethylene (TCE)		1.0	ND	ND	ND	
Methylene Chloride		1.0	ND	ND	ND	
Trichlorofluoromethane		1.0	ND	ND	ND	
1,1,2-Trichlorotrifluoroethane		1.0	ND	ND	ND	
Vinyl Chloride	0.1	0.4	ND	ND	ND	
Benzene	0,1	0.4	ND	ND	ND	
Ethylbenzene		1.0	ND	ND	ND	
Toluene		2.0	ND	ND	ND	
m,p-Xylenes		2.0	ND	ND	ND	
o-Xylene		1.0	ND	ND	ND	
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	
Dibromofluoromethane	50	70-130	108	109	118	
Toluene-d8	50	70-130	95	95	94	
Bromofluorobenzene	50	70-130	94	93	94	

SPK CONC = Spiking Concentration (<= 5 x PQL); ACP % = Acceptable Range of Percent; %REC = % Recovery; J = Estimated value.

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL); NA = Not Analyzed; EQL = Estimated Quantitation Limit.



QA / QC REPORT

Reporting Unit (Circle One): μg/Kg μg/L of air

l. Duplicates

DATE PERFORMED:

01/21/02

CLEINT SAMPLE I.D.;

SG-15-20, SG-15-20 D

LAB SAMPLE I.D.:

M2-881-6, M2-881-7

ANALYTE	Conc	Conc Dup	RPD	ACP RPD
8260 Compounds				
Tetrachloroethene	1.32	1.17	12%	25

II. Laboratory Control Check Sample

DATE PERFORMED:

01/21/02

LAB SAMPLE I.D.:

Laboratory Control Sample

ANALYTE	SPK	Conc LCS	% Rec LCS	Conc LCSD	% Rec LCSD	RPD	ACP % LCS	ACP RPD
8260 Compounds	11999							
1,1-Dichloroethylene	20	26.0	130%	23.0	115%	12%	70-130	25
Benzene	20	20.4	102%	18.0	90%	13%	70-130	25
Trichloroethene	20	19.5	98%	17.2	86%	12%	70-130	25
Toluene	20	18,6	93%	16.6	83%	12%	70-130	25
Chlorobenzene	20	21.9	109%	19.1	96%	14%	70-130	25



Chain of Custody Record

1401 Research Park Drive, Suite 100 Riverside, CA 92507 Voice: 909.779.0310 • 800.798.9336

3299 Hill Street, Suite 305 Signal Hill, CA 90806

www.centrum-labs.com

lab@centrum-labs.com

	Fax: 909.779.0344				Fax: 562.498.8617		/		Ple	ase	Circ	le A	naly	ses	Reg	uest	ed		
Project No:	47127		Project N		EUMS		Chain						tes Only	34					Turn-Around Time
Project Mar	eve william	5	Phone: SCL USI	-227	Fax: 562 2 951-2086		Carbon				*.0	1, 524.2	BTEX/Oxygenates Only		Pest/PCB	RCRA, PP	ty.		☐ 24 Hr. RUSH* ☐ 48 Hr. RUSH* ☐ Normal TAT
Client Name			Address: (Report and B	imno) 1	00 u. BRODOWA' TE 240 1 16 BEACH CA 90	902	esel, Fuel Screen,	Gas only	MIBE	PH), 413.2, 1664	GCMS Volatiles by 5035*		onf. Only,	- 1	Pesticides, PCBs,	Metals: Title 22 (CAM), RC	TSS, Conductivity	Hex Gr	*Requires PRIOR approval, additional charges apply Requested due date:
Centrum ID (Lab use only)	Sample ID (As it should appear on report)	Date sampled	Time sampled	Sample matrix	Site location	Containers:	8015M: Die		8021B: B	418.1 (TRPH),	GC or GCM	GCMS: 8	0.00	20	8080: Per	Metals: Ti	pH, TDS,	Flashpoint,	Remarks/Special Instructions
1	56-9-10 A	1/2/0	Bro	605		BULB				12	(2 PURCE VOLUM
2	56 -9-10 8	1	0812	1						1						100			4 "
3	56-9-10 C		0819							n							Ţ		6 " "
4	56-9-20		0934				1			1							Ò.		
5	86-15-10		0945									17			Ţ,				
L	SG-15-2D	THE	0959							1				1	W				
7	56-15-20 D		0958					11											DUPLICATE
8	56-11-9	17	1047	51					1						M				
9	SG-10-10'		1121							1									
10.	56-10-20	1	1128			1			4	11				1					
Relinquis	hed by: (Sampler's Signature)		1/21/02	fime: /400	3) Relinquished by:		Date		Time:						aborato	-			Sample Disposal
Received	D Tanein	_		1400	4) Received by:		Date		Time:		-				es 🗆		Fron	Field	☐ Client will pick up ☐ Return to client
The deliver	of samples and the signature	on this cha	11		5) Relinquished by:		Date		Time:		Custody seals?		☐ Lab disposal						
constitutes	authorization to perform the ar nd Conditions set forth on the	alyses spe	cified abov		6) Received for Laboratory by:		Date	:	Time:	- 1	Cou	rier	□ UP	S/Fe	d Ex	J Han	d car	ried	
Laboratory	Notes:																		Sample Locator No.



Chain of Custody Record

Centrum Job # 1/12-881

1401 Research Park Drive, Suite 100 Riverside, CA 92507 Voice: 909.779.0310 • 800.798.9336

3299 Hill Street, Suite 305 Signal Hill, CA 90806 Voice: 562,498,7005

www.centrum-labs.com

lab@centrum-labs.com

/	Fax: 909.779.0344				Fax: 562,498,8617		/		PI	eas	e Ci	rcle	An	alys	es	Rec	ues	ted		\
Project No:	47127		Project Na	ime: Lau	sp Eums		Chain							tes Only						Turn-Around Time
Project Man	ager: US WILLIAMS	S		562) 51-27	Fax: (562) 272 951-2	086	Carbon						, 524.2	BTEX/Oxygenates Only	1000	Pest/PCB	ZA. PP			☐ 24 Hr, RUSH* ☐ 48 Hr. RUSH* ☐ Normal TAT
Client Name (Report and Billin			Address: (Report and B		100 W. BROADWAL STE 240 LONG BEACH CA	1 90802	Diesel, Fuel Screen,	s anly	BTEX/MIBE Only), 413.2, 1664	AUSD		6	off. Only,	9	Pesticides, PCBs, F	Title 22 (CAM). RCRA.		Hex Cr	*Requires PRIOR approval, additional charges apply Requested due date:
Centrum ID (Lab use only)	Sample ID (As it should appear on report)	Date sampled	Time sampled	Sample matrix	Site location	Containers: # and type	ă	8015M: Gas	8021B: BTE	418.1 (TRPH),	LAU	0				8080: Pest	Motals: Titl		Flashpoint,	Remarks/Special Instructions
11	56-8-10	1/21/02	1245	VAPOR		BULB					X									
12	56-8-20	1	1253	-		1				M	1				1	d				
13	56-14-20		1330				6							T		10				
	26-14-10	1	130				F				Ц	4	ļ	1	Ŧ	4	1	F		
											1	1	1	1	1	1				
														+	+					
			Se C													W.	Įį.			
1) Relinquis	hed by: (Sampler's Signature)		Date: 1/21/62	Time:	3) Relinquished by:		Date	3 1	Time	e;	Tol	be co	mple	ted b	y La	boral	ory p	erson	nel:	Sample Disposal
Received	of samples and the signature		1/21/02	1400	4) Received by: 5) Relinquished by:		Date		Time		Cus	tody	seals	\$7	O Ye	es C			m Field	☐ Client will pick up☐ Return to client☐ Lab disposal
constitutes	authorization to perform the a nd Conditions set forth on the	nalyses spe	ecified abo		6) Received for Laboratory by:		Date	9:	Time	P:	00	ourie	er C	UPS	/Fed	Ex	□ Ha	nd ca	rried	
Laboratory I	Notes:									_										Sample Locator No.



CERTIFIED HAZARDOUS WASTE TESTING MOBILE & IN HOUSE LABORATORIES

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD LOS ANGELES REGION LABORATORY REPORT FORM Laboratory Name: Centrum Analytical Laboratories, Inc. Address: 1401 Research Park Drive, Suite 100, Riverside, CA 92507 Telephone: (909) 779-0310 Laboratory Certification (ELAP) No.: May 2002. Expiration Date: Authorized Signature Name (Print): James M_Reed, Mobile Lab Supervisor Authorized Signature, Date: Client: Earthtech Project No: 47127/LAUSD EUMS Analytical Method: EPA 502.2 EPA 524.1 EPA 502.1 EPA 524.2 EPA 601 EPA 624 **EPA 8010** EPA 8021 **EPA 8260B** Other GCMS Date Sampled: 01/22/02 Date Received: 01/22/02 Date Reported: 01/22/02 Sample Matrix: Vapor Extraction Method: Extraction Material:

(RWQCB LabForm; Ves11/92)

Chain of Custody Received:

No

NA

Glass

Yes

Sample headspace description (%)

Sample container material:

Sample Condition: Samples were received in glass bulbs.



Reporting Unit: µg/L of Air

D	ATE AN	ALYZED	01/22/02	01/22/02	01/22/02	01/22/02
DA	TE EXT	RACTED	NA	NA	NA	NA
DIL	UTION.	FACTOR	1	1	1	1
L	AB SAN	MPLE I.D.	Amb. Blank	M2-882-1	M2-882-2	M2-882-3
CLIE	NT SAN	MPLE I.D.	NA	SG-7-10	SG-7-20	SG-1-10
COMPOUND	MDL	EQL				
Carbon Tetrachloride		1.0	ND	ND	ND	ND
Chloroethane		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
Dichlorodifluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	V	1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1.0	ND	ND	ND	ND
Tetrachloroethylene (PCE)	1	1.0	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1.0	ND	ND	ND	ND
Trichloroethylene (TCE)		1.0	ND	ND	ND	ND
Methylene Chloride		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane		1.0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
Toluene		2.0	ND	ND	ND	ND
m,p-Xylenes		2.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND	ND	ND
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	106	101	105	108
Toluene-d8	50	70-130	96	93	96	95
Bromofluorobenzene	50	70-130	95	93	95	94



Reporting Unit: µg/L of Air

D	ATE AN	ALYZED	01/22/02	01/22/02	01/22/02	01/22/02
DA	TE EXT	RACTED	NA	NA	NA	NA
DIL	UTION I	FACTOR	- 1	1	1	1
	AB SAN	IPLE I.D.	M2-882-4	M2-882-5	M2-882-6	M2-882-7
CLIE	NT SAN	PLE I.D.	SG-1-10 D	SG-1-20	SG-2-10	SG-2-20
COMPOUND	MDL	EQL				
Carbon Tetrachloride		1,0	ND	ND	ND	ND
Chloroethane		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
Dichlorodifluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	11	1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene	1	1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1.0	ND	ND	ND	ND
Tetrachloroethylene (PCE)	-	1.0	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1.0	ND	ND	ND	ND
Trichloroethylene (TCE)		1.0	ND	ND	ND	ND
Methylene Chloride	14-37	1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane		1.0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
Toluene		2.0	ND	ND	ND	ND
m,p-Xylenes		2.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND	ND	ND
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	108	111	105	107
Toluene-d8	50	70-130	94	94	96	96
Bromofluorobenzene	50	70-130	93	93	95	93



Reporting Unit: µg/L of Air

D	ATE AN	ALYZED	01/22/02	01/22/02	01/22/02	01/22/02
DA	TE EXT	RACTED	NA	NA	NA	NA
DIL	UTION I	FACTOR	- 1	1	1	1
L	AB SAN	IPLE I.D.	M2-882-8	M2-882-9	M2-882-10	M2-882-11
CLIE	NT SAN	IPLE I.D.	SG-3-10	SG-3-20	SG-4-10	SG-4-20
COMPOUND	MDL	EQL				
Carbon Tetrachloride		1.0	ND	ND	ND	ND
Chloroethane		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
Dichlorodifluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	7	1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	7	1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1.0	ND	ND	ND	ND
Tetrachloroethylene (PCE)	/	1.0	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1.0	ND	ND	ND	ND
Trichloroethylene (TCE)		1.0	ND	ND	ND	ND
Methylene Chloride	U Total (1.0	ND	ND	ND	ND
Trichlorofluoromethane	- = -1	1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane		1.0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
Toluene		2.0	ND	ND	ND	ND
m,p-Xylenes	(PE-3)	2.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND	ND	ND
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	107	120	112	115
Toluene-d8	50	70-130	96	97	96	95
Bromofluorobenzene	50	70-130	95	95	94	94



Reporting Unit: µg/L of Air

D	ATE AN	ALYZED	01/22/02	01/22/02	01/22/02	01/22/02	
DA	TE EXT	RACTED	NA	NA	NA	NA	
DIL	UTION	FACTOR	- 1	1	1	1	
	AB SAN	IPLE I.D.	M2-882-12	M2-882-13	M2-882-14	M2-882-15	
CLIE	NT SAN	IPLE I.D.	SG-5-10	SG-5-20	SG-6-10	SG-6-20	
COMPOUND	MDL	EQL					
Carbon Tetrachloride		1.0	ND	ND	ND	ND	
Chloroethane		1.0	ND	ND	ND	ND	
Chloroform		1.0	ND	ND	ND	ND	
Dichlorodifluoromethane		1.0	ND	ND	ND	ND	
1,1-Dichloroethane (1,1-DCA)		1.0	ND	ND	ND	ND	
1,2-Dichloroethane (1,2-DCA)		1.0	ND	ND	ND	ND	
1,1-Dichloroethylene (1,1-DCE)		1.0	ND	ND	ND	ND	
cis-1,2-Dichloroethylene		1.0	ND	ND	ND	ND	
trans-1,2-Dichloroethylene		1.0	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane		1.0	ND	ND	ND	ND	
Tetrachloroethylene (PCE)		1.0	ND	ND	ND	ND	
1,1,1-Trichloroethane (1,1,1-TCA)		1.0	ND	ND	ND	ND	
1,1,2-Trichloroethane (1,1,2-TCA)		1.0	ND	ND	ND	ND	
Trichloroethylene (TCE)		1.0	ND	ND	ND	ND	
Methylene Chloride		1.0	ND	ND	ND	ND	
Trichlorofluoromethane		1.0	ND	ND	ND	ND	
1,1,2-Trichlorotrifluoroethane		1.0	ND	ND	ND	ND	
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND	
Benzene	0.1	0.4	ND	ND	ND	ND	
Ethylbenzene	Web.	1.0	ND	ND	ND	ND	
Toluene		2.0	ND	ND	ND	ND	
m,p-Xylenes		2.0	ND	NĐ	ND	ND	
o-Xylene		1.0	ND	ND	ND	ND	
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC	
Dibromofluoromethane	50	70-130	113	114	119	113	
Toluene-d8	50	70-130	97	94	96	95	
Bromofluorobenzene	50	70-130	92	94	96	96	

SPK CONC = Spiking Concentration (<= 5 x PQL); ACP % = Acceptable Range of Percent; %REC = % Recovery; J = Estimated value.

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL); NA = Not Analyzed; EQL = Estimated Quantitation Limit



Reporting Unit: µg/L of Air

D	ATE AN	ALYZED	01/22/02			
DA	TE EXT	RACTED	NA			
DIL	UTION	FACTOR	- 1			
	AB SAN	MPLE I.D.	M2-882-16			
CLIE	NT SAN	IPLE I.D.	SG-6-20 D			
COMPOUND	MDL	EQL				
Carbon Tetrachloride		1.0	ND			
Chloroethane	1	1.0	ND			
Chloroform		1.0	ND			
Dichlorodifluoromethane		1.0	ND			
1,1-Dichloroethane (1,1-DCA)	20	1.0	ND			
1,2-Dichloroethane (1,2-DCA)		1.0	ND			
1,1-Dichloroethylene (1,1-DCE)		1.0	ND		15/1	
cis-1,2-Dichloroethylene		1.0	ND			
trans-1,2-Dichloroethylene		1.0	ND			
1,1,1,2-Tetrachloroethane		1.0	ND		4	
1,1,2,2-Tetrachloroethane		1.0	ND			
Tetrachloroethylene (PCE)		1.0	ND	Vincent Control		
1,1,1-Trichloroethane (1,1,1-TCA)	4	1.0	ND		14	
1,1,2-Trichloroethane (1,1,2-TCA)		1.0	ND			
Trichloroethylene (TCE)		1.0	ND			
Methylene Chloride		1.0	ND			
Trichlorofluoromethane		1.0	ND	1		
1,1,2-Trichlorotrifluoroethane		1.0	ND		1 1	
Vinyl Chloride	0.1	0.4	ND			
Benzene	0.1	0.4	ND			
Ethylbenzene		1.0	ND			
Toluene		2.0	ND			
m,p-Xylenes		2.0	ND		4	
o-Xylene		1.0	ND			
SURROGATE	SPK CONC	ACP%	%REC			
Dibromofluoromethane	50	70-130	112			
Toluene-d8	50	70-130	95			
Bromofluorobenzene	50	70-130	94			

SPK CONC = Spiking Concentration (<= 5 x PQL); ACP % = Acceptable Range of Percent; %REC = % Recovery; J = Estimated value.

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL); NA = Not Analyzed; EQL = Estimated Quantitation Limit.



QA / QC REPORT

Reporting Unit (Circle One): µg/Kg µg/L of air

Laboratory Control Check Sample

DATE PERFORMED:

01/22/02

LAB SAMPLE I.D.:

Laboratory Control Sample

ACP % LCS	ACP RPD
70-130	25
70-130	25
70-130	25
70-130	25
70-130	25
-	



Chain of Custody Record

Centrum Job # M2 882

1401 Research Park Drive, Suite 100 Riverside, CA 92507 Voice: 909.779.0310 • 800.798.9336

3299 Hill Street, Suite 305 Signal Hill, CA 90806 Voice: 562,498,7005

www.centrum-labs.com

lab@centrum-labs.com

	Fax: 909.779.0344				Fax: 562.498.8617		/		P	eas	e Ci	rcle	Ana	alyse	s Re	que	stec	1	1	
Project No:	127		Project Na	us D	EUMS		Chain						100	A NO.						Turn-Around Time
Project Mar	WILLIAMS	9	Phone: 562 51 2	77	Fax: 562 951 208	14	Carbon C						244, 524.Z	and	Pest/PCB		4			☐ 24 Hr. RUSH*
Client Name	ent Name: Address: (Raport and Billing) EARTH TECH (Raport and Billing) LON entrum (D Sample ID Date Time Sa				D W. BROADWAY, STE 240 BEACH, CA 90802			Gas only	BTEX/MIBE Only), 413.2, 1664	20	GC or GCMS Volatiles by 5035*	MADE CASE CASE CASE	200	Pesticides, PCBs, Pe	1000	Metals: Iffig 22 (CAM), RCRA,		5	*Requires PRIOR approval, additional charges apply
Centrum (D (Lab use only)			A COLUMN COLUMN	Sample matrix	Site location	Containers # and type	8015M: Die	8015M: Ga	8021B: BT	418.1 (TRPH),	LAUS	GC or GCM	GCIMS: 62		8080: Pest		Metals: In	handar.	- Indiana	Remarks/Special Instruction
1	56-7-10	1/22/02	0725	VAPOR		BULC					X					Ш		1		
2	SG-7-20	1	0731			1					1		1							7
3	56-1-10		0806			1					T									
4	S6-1-10 D		0806								T									DUPLICATE
5	SG-1-20		0813								H		I				W			
6	56-2-10		0856						ĬĬ		\prod			7/5-						
7	56-2-20	MAG	0905					H						N/I						
8	SG-3-10		0932					Ĭ						Wij						
9	86-3-20		0945																	
10:	SG-4-10		1031	1							1									
Relinquis	hed by: (Sampler's Signature		1/22/2	Time: 1230	3) Relinquished by:		Date	0:	Time	2:	To	be cor	nplet	ed by	Labor	atory (perso	nnel		Sample Disposal
Received	Tangen	-	1/22/02	1230	4) Received by:		Date	e:	Time	3 2					Yes Yes	ALC: N	O Fr	om F	ield	☐ Client will pick up ☐ Return to client
he delver	of samples and the signature	on this ch		C.G.AT V	5) Relinquished by:		Date	e;	Time) :		100			s inta		Yes	DNO	9	☐ Lab disposal
onstitutes	authorization to perform the a	nalyses sp	ecified above		6) Received for Laboratory by:	-	Date	D:	Time	9:	00	ourle	- 0	UPS/	ed Ex	ПН	and c	arrie	d	
Laboratory	Notes:	304 7 10	_					, Li	_		-		_	_	-	-	_			Sample Locator No.



Chain of Custody Record

Centrum Job # 112 - 882.

1401 Research Park Drive, Suite 100 Riverside, CA 92507 Voice: 909.779.0310 • 800.798.9336 3299 Hill Street, Suite 305 Signal Hill, CA 90806 Voice: 562 498 7005

www.centrum-labs.com

lab@centrum-labs.com

	Fax: 909.779.0344		1.		Fax: 562.498.8617		/		P	leas	e C	ircle	An	alys	ses	Rec	ues	ted		
Client Nam	+7127 nager: VE WILLIAMS		D EUMS Fax: 560 951 20 W. BROAD WAY, S: REACH, CA 90802	r ako	I, Fuel Screen, Carbon Chain	only	BTEX/MIBE Quly	413.2, 1664	0	atlies by 5035*	~	=	9	des, PCBs, Pest/PCB	Title 22 (CAM), RCRA, PP	uctivity	Нех Сг	Turn-Around Time 24 Hr. RUSH* 48 Hr. RUSH* Normal TAT *Requires PRIOR approval, additional charges apply		
Centrum ID (Lab use only)	Sample ID (As it should appear on report)	Date sampled	Time	Sample	Site location	Containers: # and type	1 5	Gas	1.0	418.1 (TRPH),	LAUS	GC or GCMS V	1.0		2	6080: Pesticides,	Metals: Title			Requested due date:
/,	56-4-20	1/22/07	1038	VAPER		BULB	8	-	-	4	X	٦					-	-		
12	56-5-10	1	1106	1		1					1		T	1	1	T				
13	56-5-20		1115												1					
14	56-6-10		1155																	
15	56-6-20		1210	7									1		1		1			
16	S6-6-20 D	ı	1210	1		1					1		1	-	1				H	DUPLICATE
								n.					1			1				
						1						1	+	+	+	1		-	1	
) Relinqui	shed by: (Sampler's Signature)		Date: 1/22/02	Time:	3) Relinquished by:		Date	e;	Tim	e:	То	be co	mple	ted b	y La	aborat	ory pe	erson	nel:	Sample Disposal
Received	Tangen	<u> </u>	bate:		4) Received by: 5) Relinquished by:		Date			Time: Samples chilled? □ Yes □ No □ From Fiel Custody seals? □ Yes □ No				m Field	☐ Client will pick up ☐ Return to client					
constitutes	of samples and the signature authorization to perform the a and Conditions set forth on the	nalyses sp	ecified abo		6) Received for Laboratory by:		Date: Time: All sample containers intact? Yes No Courier UPS/Fed Ex Hand carrie					☐ Lab disposal								
Laboratory	Notes:								1											Sample Locator No.
Laboratory	NOTES:																			



CERTIFIED HAZARDOUS WASTE TESTING MOBILE & IN HOUSE LABORATORIES

d	ALIFORNIA RE	GIONAL WATER QUA LOS ANGELES REG		OARD
	LAB	ORATORY REPOR	TFORM	
Laboratory Name:	Centrum An	alytical Laboratories, Ir	nc.	
Address:	1401 Resea	rch Park Drive, Suite 1	00, Riverside, CA 9	2507
Telephone:	(909) 779-0	310		
Laboratory Certification (ELAP) No.: 24		Expiration Date:	May 2002.	
(CLAF) No 24	10	_ Expiration Date	Way 2002.	
Authorized Signature N	lame (Print):	James M. Reed, Mob		
Authorized Signature, I	Date:	theme M.	Led	
Client:	(Earthtech		
Project No:		47127/LAUSD EUMS		
Analytical Method:	EPA 502.1		EPA 502.2	EPA 524.1 EPA 524.2
	EPA 601 EPA 8010		EPA 8021	EPA 624 EPA 8260B
Other				GCMS
Date Sampled: Date Received: Date Reported:				01/23/02 01/23/02 01/23/02
Sample Matrix: Extraction Method:				Vapor
Extraction Material: Chain of Custody Rece		Yes N	lo	
Sample Condition: Sa Sa	mples were rece mple headspace	ived in glass bulbs. description (%)	NA	
Sa	mple container r	naterial:	Glass	

(RWQCB LabForm; Ves11/92)



Reporting Unit: µg/L of Air

D	ATE AN	ALYZED	01/23/02	01/23/02	01/23/02	01/23/02
DA	TE EXT	RACTED	NA	NA	NA	NA
DIL	UTION	FACTOR	+ 1	1		1
L	AB SAN	IPLE I.D.	Amb. Blank	M2-883-1	M2-883-2	M2-883-3
CLIE	NT SAN	IPLE I.D.	NA	SG-13-10	SG-13-20	SG-16-10
COMPOUND	MDL	EQL				
Carbon Tetrachloride		1.0	ND	ND	ND	ND
Chloroethane	3	1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
Dichlorodifluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1.0	ND	ND	ND	ND
Tetrachloroethylene (PCE)		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1.0	ND	ND	ND	ND
Trichloroethylene (TCE)		1.0	ND	ND	ND	ND
Methylene Chloride		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane		1.0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND.	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
Toluene		2.0	ND	ND	ND	ND
m,p-Xylenes		2.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND	ND	ND
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	105	108	108	105
Toluene-d8	50	70-130	97	97	97	96
Bromofluorobenzene	50	70-130	94	92	92	92



Reporting Unit: µg/L of Air

D	ATE AN	ALYZED	01/23/02	01/23/02	01/23/02	01/23/02
DA	TE EXT	RACTED	NA	NA	NA	NA
DIL	UTION	FACTOR	. 1	1	1	1
	AB SAN	IPLE I.D.	M2-883-4	M2-883-5	M2-883-6	M2-883-7
CLIE	NT SAN	IPLE I.D.	SG-16-20	\$G-12-10	SG-12-20	SG-17-10
COMPOUND	MDL	EQL				
Carbon Tetrachloride		1.0	ND	ND	ND	ND
Chloroethane		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
Dichlorodifluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	0.00	1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene		1.0	ND	ND.	ND	ND
1,1,1,2-Tetrachloroethane	C	1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1.0	ND	ND	ND	ND
Tetrachloroethylene (PCE)		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1.0	ND	ND	ND	ND
Trichloroethylene (TCE)		1.0	ND	ND	ND	ND
Methylene Chloride	2	1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane		1.0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene	1251	1.0	ND	ND	ND	ND
Toluene	1	2.0	ND	ND	ND	ND
m,p-Xylenes		2.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND	ND	ND
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	105	109	115	113
Toluene-d8	50	70-130	95	96	96	95
Bromofluorobenzene	50	70-130	93	91	93	93



Reporting Unit: µg/L of Air

D	ATE AN	ALYZED	01/23/02	01/23/02	01/23/02	01/23/02
DA	TE EXT	RACTED	NA	NA	NA	NA
DIL	NOITU.	FACTOR	- 1	1*	1	1
L	AB SAN	MPLE I.D.	M2-883-8	M2-883-9	M2-883-10	M2-883-11
CLIE	NT SAN	MPLE I.D.	SG-17-20	SG-18-10	SG-18-18	SG-21-10
COMPOUND	MDL	EQL				
Carbon Tetrachloride		1.0	ND	ND	ND	ND
Chloroethane	YY	1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
Dichlorodifluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene	(23)	1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1.0	ND	ND	ND	ND
Tetrachioroethylene (PCE)		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1.0	ND	ND	ND	ND
Trichloroethylene (TCE)		1.0	ND	ND	ND	ND
Methylene Chloride		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane		1.0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene	(8.5.3)	1.0	ND	ND	ND	ND
Toluene		2.0	ND	ND	ND	ND
m,p-Xylenes		2.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND	ND	ND
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	114	108	102	107
Toluene-d8	50	70-130	91	90	91	91
Bromofluorobenzene	50	70-130	97	99	99	98

The state of the s

^{*} Tracer, hexane, was detected in sample.



Reporting Unit: µg/L of Air

D	ATE AN	ALYZED	01/23/02	01/23/02	01/23/02	01/23/02
DA	TE EXT	RACTED	NA	NA	NA	NA
DIL	UTION	FACTOR	+ 1	1	1	1
	AB SAN	IPLE I.D.	M2-883-12	M2-883-13	M2-883-14	M2-883-15
CLIE	NT SAN	IPLE I.D.	SG-21-20	SG-20-10	SG-20-20	SG-19-10
COMPOUND	MDL	EQL				
Carbon Tetrachloride		1.0	ND	ND	ND	ND
Chloroethane		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
Dichlorodifluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	3 = 3	1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene	Con I	1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1.0	ND	ND	ND	ND
Tetrachloroethylene (PCE)		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1.0	ND	ND	ND	ND
Trichloroethylene (TCE)		1.0	ND	ND	ND	ND
Methylene Chloride		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane		1.0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
Toluene	7	2.0	ND	ND	ND	ND
m,p-Xylenes		2.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND	ND	ND
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	106	107	106	117
Toluene-d8	50	70-130	91	91	91	95
Bromofluorobenzene	50	70-130	99	99	99	95



Reporting Unit: µg/L of Air

D	ATE AN	ALYZED	01/23/02	01/23/02	01/23/02	
DA	TE EXT	RACTED	NA	NA	NA	
DIL	UTION	FACTOR	1	1	1	
	AB SAN	IPLE I.D.	M2-883-16	M2-883-17	M2-883-18	
CLIE	NT SAN	IPLE I.D.	SG-19-10 D	SG-19-20	SG-18-10 R	
COMPOUND	MDL	EQL				
Carbon Tetrachloride		1.0	ND	ND	ND	
Chloroethane	P4 - 1	1.0	ND	ND	ND	
Chloroform		1.0	ND	ND	ND	
Dichlorodifluoromethane		1.0	ND	ND	ND	
1,1-Dichloroethane (1,1-DCA)		1.0	ND	ND	ND	
1,2-Dichloroethane (1,2-DCA)		1.0	ND	ND	ND	
1,1-Dichloroethylene (1,1-DCE)		1.0	ND	ND	ND	
cis-1,2-Dichloroethylene		1.0	ND	ND	ND	
trans-1,2-Dichloroethylene		1.0	ND	ND	ND	
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	
1,1,2,2-Tetrachloroethane	100	1.0	ND	ND	ND	
Tetrachloroethylene (PCE)		1.0	ND	ND	ND	
1,1,1-Trichloroethane (1,1,1-TCA)		1.0	ND	ND	ND	
1,1,2-Trichloroethane (1,1,2-TCA)		1.0	ND	ND	ND	
Trichloroethylene (TCE)	5 (1.0	ND	ND	ND	
Methylene Chloride		1.0	ND	ND	ND	
Trichlorofluoromethane		1.0	ND	ND	ND	
1,1,2-Trichlorotrifluoroethane		1.0	ND	ND	ND	
Vinyl Chloride	0.1	0.4	ND	ND	ND	
Benzene	0.1	0.4	ND	ND	ND	
Ethylbenzene	1	1.0	ND	ND	ND	
Toluene		2.0	ND	ND	ND	
m,p-Xylenes		2.0	ND	ND	ND	
o-Xylene	h Ct	1.0	ND	ND	ND	
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	
Dibromofluoromethane	50	70-130	116	118	111	
Toluene-d8	50	70-130	96	95	97	
Bromofluorobenzene	50	70-130	94	93	91	



QA / QC REPORT

Reporting Unit (Circle One): μg/Kg μg/L of air

Laboratory Control Check Sample

DATE PERFORMED: 01/23/02

LAB SAMPLE I.D.: Laboratory Control Sample

ANALYTE	SPK	Conc LCS	% Rec LCS	Conc	% Rec LCSD	RPD	ACP % LCS	ACP RPD
8260 Compounds	- 1-3							
1,1-Dichloroethylene	20	24.1	120%	23.3	116%	3%	70-130	25
Benzene	20	18.2	91%	18.1	91%	0%	70-130	25
Trichloroethene	20	17.3	87%	17.0	85%	2%	70-130	25
Toluene	20	16.6	83%	16.7	84%	1%	70-130	25
Chlorobenzene	20	20.1	100%	20.1	101%	0%	70-130	25



Chain of Custody Record

Centrum Job # In 2 - 883

1401 Research Park Drive, Suite 100 Riverside, CA 92507 Voice: 909.779.0310 • 800.798.9336

3299 Hill Street, Suite 305 Signal Hill, CA 90806 Voice: 562.498.7005

www.centrum-labs.com

lab@centrum-labs.com

	Fax: 909.779.0344				Fax: 562.498.8617		/		P	leas	e C	ircle	Ar	ally	ses	Reg	ues	ted	1	
Project No:	127		Project Na	ame: _AuS	D EUMS		Chain							ates Only						Turn-Around Time
Project Man	eger: E WILLIAMS		Phone: 562 951 2	272	Fax: 542 951 20	2 L	Carbon					30	, 524.2	BTEX/Oxygenates		PestPCB	da Pp			☐ 24 Hr. RUSH* ☐ 48 Hr. RUSH* ☐ Normal TAT
			Address: (Report and Si	Magloo	W. BROADWAY, STI	E. 240	Diesel, Fuel Screen,	Gas only	BTEX/MtBE Only), 413.2, 1664	9	tiles by	-	nf. Only,	8270C, 625	Pesticides, PCBs, P	Metals: Title 22 (CAM). RCRA.	TSS, Conductivity	Hex Cr	*Requires PRIOR approval additional charges apply
Centrum ID (Lab use only)	Sample ID (As it should appear on report)	Date sampled	Time sampled	Sample matrix	Site location	Containers: # and type	8015M: Die	8015M: Ga	8021B: BTE	418.1 (TRPH),	LAUS	GC or GCMS			22	8080; Pest	Metals: Titl	pH, TDS,	Flashpoint,	Remarks/Special Instruction
	SG-13-10	1/23/02	0712	VARX		BULB					X						W	1		
2	56-13-20	1	0717						1											
3	56-16-10	111	0745			1512	III						Ч				W	Mil		
3	56-16-20	TE LE	8783																1	
200	56-12-10		0830				7										1			
6	SG-12-20	17	0838										1				V			
-	56-17-10	(E)	0928			E	E													
0	SG-17-20		0935										1							
9	SG-18-10		1010							M										
10	SG-18- 2018 hed by: (Sampler's Signature)	1	1028												1		W	1		
1) Relinquis	hed by: (Sampler's Signature)	29/02	Date:	Time: 1440	3) Relinquished by:		Date	e:	Tim	e:	То	be co	mple	eted I	by L	aborat	ory p	erson	nel:	Sample Disposal
Ceived	Taneone		1/25/32	Time: 1440	4) Received by:		Date	01	Tim	e:								Fro	n Field	☐ Client will pick up ☐ Return to client
The delivery	of samples and the signature	on this ch			5) Relinquished by:		Date	19	Time: Custody seals? ☐ Yes ☐ No All sample containers intact? ☐ Yes ☐ No				No	☐ Lab disposal						
constitutes	authorization to perform the ar nd Conditions set forth on the	alyses spe	ecified abov		6) Received for Laboratory by:		Date	e:	Tim	9:	00	Courle	er (D UP	S/Fe	d Ex	□ На	nd ca	rried	
Laboratory I	Votes*		-													200	-			Sample Locator No.



Chain of Custody Record

Centrum Job # N1 L - 883

1401 Research Park Drive, Suite 100 Riverside, CA 92507 Voice: 909.779.0310 • 800.798.9336

3299 Hill Street, Suite 305 Signal Hill, CA 90806 Voice: 562,498,7005

www.centrum-labs.com

lab@centrum-labs.com

	Fax: 909.779.0344	1311-111			Fax: 562.498.8617		1		P	leas	e C	ircle	Ar	naly	ses	s Re	que	ste	E	1	
Project Mar	7/27 nager:		Phone: 562	AUSD	RUMS 562 951 208		Carbon Chain						524.2	BTEX/Oxygenates Only		Pest/PCB		a d			Turn-Around Time 24 Hr. RUSH* 48 Hr. RUSH*
STEVE WILLIAMS Client Name: (Report and BHling) EARTH TECH			illing) /O	D W. BROADWAY,	5E 240	Diesel, Fuel Screen, C	Gas only	BTEX/MIBE Only	H), 413.2, 1664	USD	attles by 5035*	-	MISE Conf. Only, BTEX	8270C, 625	Pesticides, PCBs, Pest		= 1	ñ	Hex Cr	Normal TAT *Requires PRIOR approval, additional charges apply Requested due date:	
Centrum ID (Lab use only)		Date sampled	Time sampled	Sample matrix	Site location	Containers: # and type	*	1000	8021B: BT	418.1 (TRPH),	LAU	GC or GCN	-	GCMS: Mt	GCMS: 8	8080; Pes		9	pe, ins,	Flashpoint	Remarks/Special Instructions
11	56-21-10	1/23/02	1055	VAPOR		BULB				4.3	X								1		
12	54-21-20	1	1112	1			1				1								1		
13	56-20-10	5 (=)	1238																1		
14	56-20-20		1248									(i)				1					
15	56-19-10		1305					H										1	1	1	
16	56-19-10D		1305															1	1		DUPLICATE
17	56-19-20		1315															1	1		21,0
18	SG-18-10 R		1330	- 1		1					1							1	1	1	RESAMPLE
1) Balleria	shed by: (Sampler's Signature)		Onto	Time:	3) Relinquished by:		Date		Tim								1	1			
Le	siled by: (Sampler's Signature)		Daje: 1/23/02	1,5100.5	s) Kenndulaned by:		Date			0.	То	be co	ompl	eted	by L	abor	atory	pers	onne	el:	Sample Disposal
2) Roce ver	2 Tomeen	_	Date/ 1/23/02	Time:	4) Received by:		Date	2:	Tim	e:	1000	7.7					□ No	DF	om	Field	☐ Client will pick up ☐ Return to client
The dive	y of samples and the signature	on this cha	1	2000	5) Relinquished by:		Date	3:	Tim	e:		0.00					ct? [Yes	01	No.	☐ Lab disposal
	authorization to perform the ar and Conditions set forth on the			ve under	6) Received for Laboratory by:		Date	2:	Time	e 1	0	Couri	er I	U UF	SIF	ed Ex	ПН	and	arri	ied	
Laboratory	Notes:	_								_		_	_	_	_	_		_	_		Sample Locator No.

APPENDIX E

JOHNSON AND ETTINGER SOIL SCREEN MODEL RESULTS AND MAXIMUM CONCENTRATIONS

JOHNSON AND ETTINGER SOIL SCREEN MODEL USING 95% UCL

100	Soil	Sas Concentration	Data	DATA E SHEET
ENTER	ENTER Soil		ENTER Soil	DTSC/HERD 12/1/01
CAS No.	gas conc.	DR	gas conc.	
(numbers only, no dashes)	[hd/w ₃]		C ₃ (opmv)	Chemical
75718	4.65E+02			Dichlorodifluoromethans

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE	below grade to bottom of enclosed space floor; Le (15 or 200 cm)	Soil gas sampling depth below grade, L ₄ (cm)	Average spil temperature, Te (°C)	Vadose zone SCS soil type (used to estimate soil vapor permeability)	DR	User-defined yadose zone soil vapor permeability, k, (cm²)
	15	609.6	202	LS		

MORE	ENTER Vadose zone soil dry bulk density. Po ^A [g/cm ³]	ENTER Vadose zone soil total porosity, n* (untless)	Vadose zone soil water-filled porosity, θ_w^V [orn ³ /cm ³]
1	1.48	0.457	0204

•	Averaging time for carcinogens, AT _E	Averaging time for nancarcinogens, ATMC	Exposure duration,	Exposure frequency. EF
-	(yra)	(yrs)	[yrs]	[days/yr]
F	70	30	30	350

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D _{ii} (cm ² /s)	Diffusivity in water, D _w (cm ² /s)	Henry's Jaw constant at reference temperature, H [atm-m ³ /mol]	Henry's law constant reference temperature, Ta (°C)	Enthalpy of vaporization at the normal boiling point ΔH_{co} (cal/mol)	Normal boiling point Te (19)	Crtical temperature, T _C (N)	Unit resk factor, URF (jug/m³) ⁻¹	Reference conc., RIC [mg/m ³]	Molecular weight, MW [g/mol]
8.006-02	1.105-05	7.24E-06	25	5,246	243.00	370,00	0,0E+00	2,05-01	120.00

INTERMEDIATE CALCULATIONS SHEET

Source- building separation, L _T (cm)	Vadose zone soil eir-filled porosity, e, v (cm³/cm³)	Vadose zone effective total fluid saturation, Sm [cm³/cm³]	Vadose zone soll intrinsic permeability, k (cm²)	Vadose zone soil reletive air permeability, k _m (cm ²)	Vadose zone soil effective vapor permeability, k, (cm²)	Floor- walf seam perimeter, X _{onds} [cm]	Soil gas conc. [µg/m³]	Eldg, ventilation rate, D _{b,Marg} [cm ³ /s]
594.8	0.253	0.380	1.655-08	0.717	1.78508	3,844	4.65E+02	5.63E+04
Area of enclosed space below grade, A _B [cm ²]	Crack- to-total area ratio, (unitless)	Crack depth below grade, Zono: [cm]	Enthalpy of vaporization at ave, soil tamperature,	Henry's law constant at ave. soil temperature, Hrs [atm-m³/mof]	Henry's law constant at ave. soil temperature, firs (unitess)	Vapor viscosity at ave. soil cemperature, Hrs (g/cn-s)	Vadose zone elfective diffusion coefficient, D ^{eff} v [cm ² /s]	Diffusion path length, L _d (cm)
9.246+05	4.16E-04	15	4,352	6.42E06	2.675-04	1.79E04	4.935-03	594.6
Convection path length, L, (cm)	Source vapor conc., Carra [14g/m³]	Crack radius, Forest (cm)	Average vapor flow rate into bidg., G _{tol} (cm ² /s)	Crack effective difficient coefficient D ^{rack} [cm ² /s]	Area of crack A _{mot} [cm ²]	Exponent of squivalent foundation Packet number, exp(Pa ^t)	infinite source indoor attenuation coefficient; ot (unitiess)	Infinite source bldg, conc., Codere [ug/m]
15	4,656+02	0,10	1.12E+01	4.93E03	3.84E+02	4.33E+38	8.09E-05	3.76E-02

Linit
risk Reference
factor, conc.,
LIRF RTC
(µg/m³/1 (mg/m³)

NA 2.0501

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental	Hazard
riskfrom	quotient
Vapor	from vapor
intrusion to	Intrusion to
Indoor air,	indoor air,
carcinogen	noncarcinogen
(unitiess)	[unitless)
NA	1,85-04

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

4241	Soil	Gas Concentration	Data	DATA E SHEET
Chemical CAS No. (numbers only, no dashes)	Soit gas conc. C _g (ug/m³)	OR	Soil gas conc. Cy [ppmv]	DTSC/HERD 12/1/01 Chemical
				Diffined
75694	4.65E+02			Trichlorofluuromethane

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE	below grede to bottom of enclosed spece floor; Le (15 or 200 cm)	Soil gas sampling depth below grade, L, (cm)	Average soil temperature,	Vadose zone SCS soil type (used to estimete soil vapor permeability)	DR	User-defined values zone soil vapor permeability, k, [cm²]
	15	609.5	202	LS		

MORE	ENTER Vadase zone soil dry bulk density. Ps ^A (g/cm ³)	ENTER Vadose zone soil total porosity, n (unitless)	Vedose zone soft water filled porosity. 8,, (cm²/cm²)
I	1.40	0.457	0204

Averaging time for cercinogens, AT _C	Averaging time for noncercinogens, AT _{NC}	Exposure duration, ED	Exposure frequency, EF
(ALZ)	(yrs)	(yrs)	(days/yr)

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D _a [cm ² /s]	Diffusivity in Websr, D _w [cm ² /s]	Henry's law constant at reference temperature. H	Henry's law constant reference temperature, Ta (C)	Enthalpy of vaporization at the normal boiling point, ΔH_{cb} [cal/mal]	Normal boing point, T _B	Critical temperature, T _C (NG	Unit risk factor, URF (ug/m³)*	Reference conc., RfC [mg/m ³]	Molecular weight, MW [g/mol]
8.70E-02	1.306-05	3.088-05	25	6,168	296.87	471.15	0.0E+00	7.06-01	137.40

INTERMEDIATE CALCULATIONS SHEET

Source building separation, L _T (cm)	Vadose zone soil air-filled porosity, e, v [cm³/em³]	Vadose zone effective total fluid saturation. Sa [cm³/cm³]	Vadose zone soil intrinsic permeability, k, (cm²)	Vadose zone snil relative air permeability. k _m (cm²)	Vadose zone soil effective vapor permeability, k, (cm ²)	Fjoor- wall seam perimeter, Xonex (cm)	Soil gas sons, (µg/m³)	Bidg. ventilation rate, O _{bulding} (cm ³ /s)
594.6	0.253	0.380	1.85E-08	0.717	1.185-08	9,844	4.65E+02	5.635+04
Area of enclosed space below grade, Ae (cm²)	Crack- to-total area ratio, 11 (unidess)	Crack depth below grada, Zasok (cm)	Enthalpy of vaporization at ave. soil temperature, \[\Delta H_{\text{title}} = \left(\frac{\text{Cal}}{\text{mod}} \right) \]	Henry's law constant at ave. soil temperature, His [atra-m³/mol]	Henry's law constant at ave. soil temperature, 'H're [unitiess]	Vapor viscosity at ava. soil temperature, [#19 (g/om/s)	Vadose zone effective diffusion coefficient, D ^{ev} _V (cm ² /s)	Diffusion path length, L _d (cm)
9,24E+05	4.16E-04	15	6,211	2.59E-05	1.08E03	1,795-04	4,586-03	594.6
Convection path length, L _d [cm]	Source vapor conc., C _{sorce} (ug/m²)	Crack radius, Fosak (cm)	Average vapor flow rate into bldg., G _{sol} (cm ³ /s)	Crack effective diffusion coefficient, D ^{ored} (cm ² /s)	Area of crack, Aonea (cm²)	Exponent of equivalent foundation Pecket number, exp[Pe ^r] (unideas)	Infinite source indoor albenuation coefficient, o. (unidess)	Infinite source bidg, conc., County [µg/m³]
15	4.85E+02	0.10	1.12E+01	4.58E03	3.64E+02	4.49E+41	7.738-05	3.598-02

Unit risk Reference factor, conc., URF RFC [ug/m³] (mg/m³) NA 7.0501

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Hazard		
quotient		
from vapor		
intrusion to		
indoor air, noncarcinoger		
4.9E-05		

MESSAGE SLIMMARY BELOW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

	Soil (Sas Concentration	Data	DATA EN AEET	
ENTER	ENTER Soil		ENTER Soil	DTSC/HERD 12/1/D1	
Chemical CAS No.	gas conc.,	OR	gas conc_		
[numbers only, no dashes]	C ₂ [µg/m³]		C _y (opmv)	Chemical	
no desirea)			(ppinty)	Geinoa	-
71556	463E+02			1,1,1-Trichloroethene	7

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE .	below grade to bottom of enclosed spece floor, L _F (15 or 200 cm)	Soil gas sampling depth below grade, L (cm)	Average soit temperature, Ta (°C)	Vadose zone SCS soli type (used to estimate soli vapor permeability)	OR	User-defined vadose zone soli vapor permeability. k, (cm²)
	15	304.8	20.2	LS		

MORE	ENTER Vadose zone soil dry bulk density, Pa (g/cm³)	ENTER Vadose zone soil total porosity, n (unitless)	Vodase zone soif water-filled porosity, 8,\(^{V}\) (cm ³ /cm ³)
Ī	1.46	0.457	0.204

#ORE ↓	ENTER Averaging	ENTER Averaging	ENTER	ENTER
	time for parcinogens.	time for noncarchogens,	Exposure duration.	Exposure frequency.
	AT _D (yrs)	AT _{NC} (yrs)	ED (yrs)	[days/yr]
I	70	30	30	350

CHEMICAL PRU _RTIES SHEET

Datusivity in air, D _a (cm ² /s)	Diffusivity in water, D _w (cm ² /s)	Henry's law constant at reference temperature, H [abri-m³/mol]	Henry's law constant reference temperature, Ta (C)	Enthalpy of vaporeation at the normal boiling point, ΔH_{co} (cal/mol)	Normal boiling point, T _B	Critical temperature, T _G	Unik risk factor, URF (µg/m³) ¹	Reference conc., RfC [mg/m ³]	Molecular weight, MW (g/mol)
7.805-02	8.805-06	1.726-02	25	7,136	347.24	545.00	0.0E+00	1.0E+00]	133.41

Source- building separation, L _T (cm)	Vedose zone soil air-filled porosity, 8, V [cm ³ /cm ³]	Vadose zone effective total fiuld saturation, S _a (cm ³ /cm ³)	Vadose zone soil intrinsko permeability, k [cm²]	Vadose zone soil relative air parmeability, K _E [cm ²]	Vadose zone soil effective vapor permeability, k, [cm²]	Hoor- wall seam perimeter, X-nd (cm)	Soil gas conc. (µg/m³)	Biog. ventilation rate. (cm ³ /s)
289.8	0.253	0.360	1.856-08	0,717	1,185-06	3,844	4.63E+02	5.68E+04
Area of anciased space below grade, As [cm²]	Crack- to-total area ratio, 7) [unloass]	Crack depth below grade, Z	Enthalpy of vaporization at ave, soil temperature,	Henry's law constant at ave, soil temperature, His [attern ³ /mol]	Henry's law constant at ave. soil temperature, His (unitless)	Vapor viscosity at ave, soil temperature, µis [g/cm-s]	Vadose zone effective diffusion coefficient, D ^{eff} _V [cm ² /s]	Diffusion path length, L _d (cm)
9.24E+05	4.16E-04	15	7.774	1,39602	5.766-01	1.796-04	3.84E-03	289.8
Convection path length, L _p [cm]	Source vapor conc., C. corcs	Crack radius, reset (cm)	Average vapor flow rate into bldg Dall [cm ³ /s]	Creck effective diffusion coefficient, D ^{ones} [cm ² /s]	Area of crack, Acad (cm²)	Exponent of equivalent foundation Peolet number, exp(Pe ⁶)	Infinite source indoor attenuation coefficient, ct (unidess)	Infinite source bldg. conc., C _{tallding} (µg/m ³)
15	4.63E+02	0.10	1.12E+D1	3.845-03	3.84E+02	3.97E+49	1.04E04	4.82E02

Link Reference risk eonc., famor, UAF (µg/m³)¹ [mg/m³) 1.0E+00 NA. END

INCREMENTAL RISK CALCULATIONS:

Incremental	Hazard
risk from	quotient
vabor	from vapor
intrusion to	intrusion to
indoor air,	indoor air,
carcinogen	noncarcinoger
(unidess)	(unitless)

MESSAGE SUMMARY BELOW:

market to the		Ses Concentration		DATA EN HEET
Chemical CAS No. [numbers only,	Soil gas conc. C ₄	OF	ENTER Soil gas conc., C,	DTSC/HEAD 12/1/D1
no dashes)	[µg/m³]		(vmqq)	Chemical
71432	483E+01			Benzene

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE	below grade to bottom of enclosed space floor, L _p (15 or 200 cm)	Soil gas sampling depth below grade. L (cm)	Averege soil temperature, T _S (°C)	Vadose zone SCS soil type (used to estimate soil vapor permeability)	OH	User-defined vadase zone soil vapor permeability, k, (cm ²)
	15	3048	20.2	LS	- 1	

MORE	ENTER Vadase zone soil dry bulk density, Po* [g/cm³]	ENTER Vadose zone soil total porosity, n (unitless)	ENTER Vedose zone soil water-filled porosity, 8, V [cm³/cm³]
1	1.46	0.457	0204

	Averaging time for cardinagens, AT _C	ENTER Averaging time for noncarcinogens, ATNC	ENTER Exposure duration.	ENTER Exposure frequency. EF
	(yrs)	(krs)	[yrs]	(days/yr)
r	70	30 1	30	350

CHEMICAL PROPERTIES SHEET

Diffusivity in air. D _s (cm ² /s)	Officiality in water, D _a (cm ² /s)	Henry's law constant at reference temperature, H (abm-m³/mol)	Henry's law constant reference temperature, T _R (°C)	Enthalpy of vaporization at the normal boiling point,	Normal boiling point, T _B	Critical temperature, T _C (N)	Unit risk factor, UAF (ug/m³) [†]	Reference conc. RIC (mg/m³)	Molecular weight, MW [g/mol]
8.80E-02	9.80E-06	5,56E-03	25	7,342	353.24	582.16	2.95-05	8.0E-02	78.11

Source- building separation, L _r [cm]	Vadose zone soil ar-filled porosity, e, ^V (cm ³ /cm ³)	Vadose zone effective total fluid saturation, S _w [cm ³ /cm ³]	Vadose zone soil intrinsic permeability, k, (cm ²)	Vadose zone. soil relative air permeability, krp (cm²)	Vadose zone soil effective vapor permeability, k, (cm²)	Floor- wall seam perimeter, X _{ruck} [cm]	Spil gas conc. (µg/m ³)	Bidg, ventilation rate, Guiden (cm ³ /s)
289.8	0.253	0.380	1.65E-08	0.717	1.18E-08	3,844	4.63E+01	5.83E+04
Area of enclosed space below grade, A ₈ (cm ²)	Crack- to-total area rabo, I (unitiess)	Crack depth below grade, Zast [cm]	Enthalpy of vaporization at ave, soil temperature, \[\Delta H_{173} \] [cal/moi]	Henry's law constant at ave. soil temperature, Hra (etmm3/mol)	Henry's law constant at ave, soil temperature, H'ins (unideas)	Vapor viscosity at ave, soil temperature, inside the content of th	Vadose zone effective diffusion coefficient, D ^{ef} v (cm ² /s)	Diffusion path length, L _d (cm)
9.245+05	4.16E04	15	8,017	4.485-03	1.65E-01	1,795-04	4.34E-03	289,8
Convection path length, L _a (cm)	Source vapor conc., Carca (µg/m³)	Crack radius, Fasek (cm)	Average vapor flow rate into bldg., Gad (cm ³ /s)	Crack effective diffusion coefficient, Crack [cm ² /s]	Area of crack, Acres (cm²)	Exponent of equivalent foundation Peclet number, exp[Pe ^t]	Infinite source indoor etzenuation coefficient, a: [unitiess]	infinites source bldg. conc., Cudens [µg/m³]
15	4.63E+01	0.10	1.12E+01	4.345-03	3,84E+02	8,995+43	1.105-04	5.09E03

Unit
risk Reference
factor, conc.,
URF RfC
[µg/m³]** [mg/m³]

2.9505 5.0502

INCREMENTAL RISK CALCULATIONS:

Incremental	Hazard
risk from	quotient
Vapor*	from vapor
intrusion to	intrusion to
indoor ar.	indoor air,
carcinogen	noncarcinoger
(undess)	[esabinu]

MESSAGE SUMMARY BELOW:

	Solit	Sas Concentration	n Data	DATA EI HEET
Chemical CAS No. (numbers only.	Soll gas cono, C _s	OR	ENTER Soil gas cane. C ₃	DTSC/HERD 12/1/01
no dashes)	[µg/m³]		(ppmv)	Chemical
108883	928E+02			Toluene

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE	below grade to bottom of enclosed space floor, L _F [15 or 200 cm]	Soil gas sampling dapth below grade, L _w	Average soil temperature, T _s	Vadose zona SCS soil type [used to estimate soil vapor permeability)	OR	iJser-defined vadase zone soil vapor permeability, k, [om ²]
	15	304.6	202	LS	-	

MORE ¥	ENTER Vedose zone soil dry bulk density, Pa ^A (a/cm ²)	ENTER Vadose zone soil total porosky, n (unidess)	ENTER Vadose zone soit water-filled porosity, e, v (cm³/cm²)
	1.48	0.457	0204

MORE	ENTER	ENTER	ENTER	ENTER
	Averaging time for carcinogens, AT _c (yrs)	Averaging time for noncarcinogens. AT _{NO} (yrs)	Exposure duration, ED (yrs)	Exposure frequency, EF [days/yr]
E	70	30	30	350

CHEMICAL PROPERTIES SHEET

Diffusivity In ac. D _e (cm ² /s)	Diffusivity in water, D _w (cm ² /s)	Henrys law constant at reference temperature. H [atm·m³/mol]	Henrys law constant reference temperature, T _R (*C)	Enthalpy of vaporization at the normal boiling point. ΔH _{us} [cal/mol]	Normal boiling point, Te (%)	Critical temperature, To (N)	Unit risk factor, URF [µg/m³] ¹	Reference conc. RfC [mg/m³]	Molecular weight, MW (g/mol)
870E02	8.606-08	6.63E-03	25	7,930	383.78	591.79	0.0E+00	3.0E-01	92.14

Source- building separation, L _T [cm]	Vadose zone soil ain-filled porosity, 6, Y [cm³/cm³]	Vedose zone effective botal fluid saturation, So [cm³/cm³]	Vadose zone soll intrinsic permeability, k [cm²]	Vadose zone soli relative air permeability, k _{re} (cm ²)	Vadose zone soil effective vapor permeability, k, (cm²)	Floor- wall seam perimeter, X _{red} (cm)	Soli gas conc. (µg/m³)	Bldg. Ventilation rate, Gluedro [cm ³ /s]
289.8	0.253	0.380	1.65506	0.717	1,185-08	3,844	9.28E+02	5.63E+04
Area of enclosed spece below grade, As [om ²]	Crack- to-total area ratio, 1) [unitless]	Crack depth below grade, Z _{prest} [cm]	Enthalpy of vaporization at ave. soil temperature, AH _{vis} (cal/mol)	Henry's law constant at ave. soil temperature, Hhs {atm-m³/mol}	Henry's law constant at ave, soil temperature, Hire [unitless]	Vapor viscosity at ava. soll tamperature, µis [g/cors]	Vadose zone effective diffusion coefficient, Deft (cm²/s)	Diffusion path length, L _d [cm]
9.24E+05	4.18E-04	15	9,043	5.16E-03	2.15E-01	1.79E-04	4.29E-03	288.6
Convection path length, L _e (cm)	Source vapor conc., C.o.o.s (Lig/m ³)	Crack radius, Fosck (cm)	Average vapor flow rate into bidg., Gent (cm²/s)	Crack effective diffusion coefficient, D ^{ozzl} (cm ² /s)	Area of crack Aust (cm ²)	Exponent of equivalent foundation Peolet number, exp[Pe ^t] (Unidess)	Infinite source indoor attenuation coefficient, o: [unitless]	Infinite source bldg, cane., Chadding
15	9.28E+02	0.10	1.126+01	4,295-03	3.84E+02	2.90E+44	1.086-04	1.025-01

Unit:
risk Reference
factor. conc.,
URF RfC
(µg/m³)¹ [mg/m³]

NA 3.0E-01

INCREMENTAL RISK CALCULATIONS:

Incremental	Hazard
risk from	quotient
Vapor	from vapor
intrusion to	intrusion to
indoor air,	indoor air,
cardinogen	noncarcinogen
(unidess)	(unitless)

MESSAGE SUMMARY BELOW:

	Soll	Gas Concentratio	n Data	DATA E SHEET
Chemical CAS No. [numbers only, no deshea]	ENTER Soil gas ponc, Cg	RC.	ENTER Soil gas conc. C ₂	OTSC/HERO 12/1/01
na adshes)	gagy in j		[ppmv]	Chemical
79016	453E+02			Trichloroethylene

	Depth	ENTER	ENTER	ENTER		ENTER
MORE	below grade to bottom of enclosed space foor, L _p [15 or 200 cm]	Soil gas sampling depth below grade, L ₄ [om]	Average soil temperature, T _s (°C)	Vedose zone SCS soil type [used to estimate soil vapor permeability)	OR	User-defined velose zone soil vepor permeability, k, (cm²)
	15	274.3	202	LS		

MORE	ENTER Vedose zone soil dry bulk density, Po ^A [g/cm³]	Vadose zone soil total porosky, n (unitless)	ENTER Vadose zone soil water-filled porosity, 0, (cm²/cm³)
1	1.45	0.457	0204

* 1	Averaging time for	ENTER Averaging time for	ENTER Exposure	Exposure
	carcinogens,	noncarcinogens,	duration.	frequency,
	AT _C (yrs)	(yrs)	(Ars)	[days./yr]
-	70	T 30 T	30	350

CHEMICAL PRO. ERTIES SHEET

Diffusively in air, D. (cm²/s)	Diffusivity in water. D. [cm²/s]	Henry's law constant at reference temperature, H (atm-m³/mal)	Henry's law constant reference temperature, Tn [°C]	Enthalpy of vaporization at the normal bolling point. ΔH _{ab} (cal/mel)	Normal boiling point. T _B	Critical temperature, To	Unit. risk factor. URF (ug/m³)	Reference conc., RfC (mg/m ³)	Molecular weight, MW (g/mol)
7.90E-02	9.106-08	1.035-02	25	7,505	360.36	544.20	2.0E-06	6.05-01	131.39

FND

Source- building separation, L _r [cm]	Vadose zone soil air-faed porusia, 6, ^V (cm ³ /cm ³)	Vadose zone effective total fluid saturation, Sa [cm²/cm³]	Vadose zone soil intrinsic permeability, k [cm²]	Vadose zone soil relative air permeability, k _{ri} (cm ²)	Vadose zone esti oni estecuve vapor permeability, k, (cm²)	Floor- wall seam parimeter, X _{rea} (cm)	Soil gae conc. (µg/m³)	Bidg. ventilation rate, G _{buldry} (cm ³ /s)
259.3	0.253	0.380	1.655-08	0.717	1.18E-08	3,844	4.63E+02	5.83E+04
Area of enclosed space below grade, As [cm²]	Crack- to-total area ratio, th (unidass)	Crack depth below grade, Z _{mot} (cm)	Enthelpy of vaporization at ave. soil temperature, ΔH_{eff} [cal/moil]	Henry's law constant at ave. soil bemperalsire, His [atm-m³/mol]	Henry's law constant at ave, soil bernparature, His (unidees)	Vapor viscosity at ave. soil temperature, µre (g/cm-e)	Vadose zone effective diffusion coefficient, Defv (cm²/s)	Diffusion path length, L _c (cm)
9,24E+05	4.165-04	15	8,430	8.16E-03	3.396-01	1.79604	3,898-03	259.3
Convection peth length,	Source vapor cono., Csores [µg/m³]	Crack radius, r _{crask} (cm)	Average vapor flow rate into bidg., Q _{m3} (cm ³ /s)	Crack effective diffusion coefficient, D ^{crack} [cm ² /s]	Area of orack Area (cm²)	Exponent of equivalent foundation Pedlet number, exp(Pe ¹)	Infinite source indoor attenuation coefficient, α [unitiess]	Infinite source bidg, conc., County
15	4.63E+02	0.10	1.12E+D1	3.895-03	3.84E+02	9.26E+48	1.10E04	5.106-02

Unit risk Reference factor, conc...
URF RTC (µg/m²)¹ (mg/m²)
2.0E-08 B.0E-01

INCREMENTAL RISK CALCULATIONS:

Incremental	Hazard
resk from	quotient
vapor	from vapor
intrusion to	intrusion to
indoor air.	indoor air,
carcinogen	noncarcinogen
(unitiess)	[unidess]

MESSAGE SUMMARY BELOW!

	Spill	Sas Concentration	n Data	DATA E SHEET
Chemical CAS No. (numbers only,	Soil ges conc.,	OR	ENTER Soil ges cond. C _g	UTSC/HERD 12/1/01
no dashes)	(µg/m²)		[ppmv]	Chemical
127164	1/12E+03			Tetrachloroethylene

ENTER ENTER ENTER ENTER ENTER Depth MORE ¥ Sail gas sampling below grade Vecese zone User-defined SCS vadosa zone to bottom Awarage of enclosed soll type spil vapor depth soil permeability. space floor, below grade, temperature, [used to estimate Le 4 Ta soll vepon K, [cm²] (" permeability) (15 or 200 cm) (cm) 202 LS 15 2743

MORE	ENTER Vadosa zone soil dry bulk demalty. Pe ^A [g/cm ³]	ENTER Vadose zona soil total porosity, n ^V (unitless)	Vadose zone soll water-filled porosity. θ_n^V [cm ³ /cm ³]
-	1.46	0.457	D204

4	ENTER Averaging	Averaging	ENTER	ENTER
	tims for perpinagens.	time for noncercinopens.	Exposure duration,	frequency.
	ATo	ATNO	ED	EF-
	(yrs)	(yrs)	(yrs)	[days/yr]
	70	30	30	350

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D _s (om ² /s)	Diffusivity in water, D _w [cm ² /s]	Henrys law constant at reference temperature, H [atm-m³/mol]	Henry's law constant reference temperature, Ta [°C)	Enthalpy of vaporization at the normal boiling point. AH, (cal/mol)	Normal boiling point, Ts (°K)	Critical temperature, To (°K)	Unit risk factor, URF (µg/m³) ¹	Reference conc., RfC (mg/m²)	Motecular weight, MW (g/mol)
7.20E-02	8.205-08	1.845-02	25	8,288	394.40	620.20	5.95-08	3.56-02	165.63

Source- building separation, L _T [cm]	Vadose zone soil air-filled porosity, θ_n^V [cm ³ /cm ³]	Vadose zone affective total fluid saturation, S _o (cm ² /cm ³)	Vadose zone soil incrinsic permeability, k, (cm ²)	Vadose zone soil relative air permeability, k _{rg} [cm ²]	Vadose zone soil effective vapor permeability, k, [cm ²]	Floor- well seam perimeter, X _{reek} (cm)	Soil gas canc (µg/m²)	Bidg. ventilation rate, Pullising (cm ³ /s)
259.3	0.253	0,380	1.655-08	0.717	1.18E-08	3,844	1.12E+03	5.63E+04
Area of enclosed space below grade, As [cm ²]	Crack- to-total area ratio, II (untikess)	Crack depth below grade, Zonok [cm]	Enthalpy of veporization at eve, soil temperature, AH, Ts [cal/mol]	Henrys law constant at ave. soil temperature, Hts [atm-m ³ /mol]	Henry's law constant at ave, soil temperature, H'15 [unitiess]	Vapor viscosity at ave. soil temperature, Ars (g/cme)	Vadose zone effective diffusion coefficient, D** (cm*/s]	Diffusion path length. La (cm)
9.24E+05	4.18E-04	15	9,449	1.425-02	5,896-01	1.79E-04	3.55503	259.3
Convection path length, Lp (cm)	Source vapor conc., Cours (µg/m³)	Crack radius, ^{Porack} (cm)	Average vapor flow rate into bldg., Gm ³ /s)	Crack effective diffusion coefficient; pred: [cm²/s]	Area of orack. Acres (cm²)	Exponent of equivalent foundation Peclet number, exp[Pe ¹] (unidass)	Infinite source indoor attenuation coefficient. α (unities)	Infinite source bldg. conc., C _{bullang} [ug/m ³]
15	1.12E+03	0.10	1.12E+01	3.556-03	3.84E+02	5.40E+53	1,066-04	1.18E-01

Unit risk Reference factor, conc., URF RTC (µg/m³)¹ (mg/m³) 5.9608 3.5602

INCREMENTAL RISK CALCULATIONS:

Incremental	Hazard
risk fram	quotient
vapor	from vapor
intrusion to	intrusion to
indoor air,	Indoor air,
carcinogen	noncardinogen
(unidess)	[unitless]

MESSAGE SUMMARY BELDW:

ENTER I				
CNICK	Soil		ENTER Soil	DTSC/HERD 12/1/01
Chemical CAS No.	gas conc.	OR	gas conc.	
(numbers only, no dashes)	C ₂		C ₂ (ppmv)	Chemica)

	Depth	ENTER	ENTER	ENTER		ENTER
MORE	below grade to bottom of enobased space floor, L _e (15 or 200 cm)	Soil gas sampling depth below grade, L (cm)	Averege spil temperature, T ₅ (°C)	Vadose zone SCS Solf type (used to estimete soil vapor permeability)	DR	User-defined vadose zone soil vapor permeability, k, [cm²]
	15	304.8	202	LS		

MORE .	ENTER Vadose zone soil dry bulk density, A (g/cm²)	ENTER Vedose zone soil total porcetty. n ^o (uradass)	ENTER Vadosa zone soli waterfillad porosity, 8, (cm³/cm³)
1	1.48	0.457	0204

	Averaging time for parcinogens,	Averaging time for noncertangens,	Exposure duration,	ENTER Exposure frequency,
	AT _C (yes)	AT _{NC} [yrs]	ED (yrs)	(days/yr)
Г	70	90	30	350

CHEMICAL PROPERTIES SHEET

Diffusivity in air, O _a (cm²/s)	Diffusivity in water, D _w (cm ⁹ /s)	Henry's law constant at reference temperature H [atm-m³/moi]	Henry's law constant reference temperature, Ta (°C)	Enthalpy of vaporization at the normal boiling point, ΔH _{ce} (cal/mol)	Normal boding point Te [NO	Critical temperature, To (NQ	Unit risk factor, URF (µg/m³) ¹	Reference conc. RrC (mg/m³)	Molecular weight. MW (g/mol)
7.50E-02	7.80E-08	7.885-03	25	8,501	409.34	617.20	0.0E+00	2.02+00	106.17

Source- building separation, Lr [cm]	Vadose zone soil air-filled porosity, θ_a^V (cm³/cm³)	Vadose zone effective total fluid saturation, S _{ta} [cm³/cm³]	Vadose zone soit Intrinsic permeability, k (cm ²)	Vadose zone soil relative air parmeability. k _{rg} (cm ²)	Vadose zone soil effective vapor permeability, k, (cm²)	Floor- wall seam perimeter, Xust (cm)	Soil gas conc, (µg/m³)	Bidg. ventilation rete, G _{rutoro} (cm ³ /s)
289.8	0.253	D.380	1.65E-08	0.717	1.185-08	3,844	4.70E+02	5.63E+04
Area of enclosed space below grade, Ae (cm²)	Crack- to-total area ratio, T (unidess)	Crack depth below grade, Zood [cm]	Enthalpy of vaporization at ave. soil temperature, \[\Delta \dagger_{\tau \text{TS}} \]	Henry's law constant at ave. soil temperature, His [atm-m ² /mol]	Henry's law constant at ave, soil temperature, H'is [unitless]	Vapor viscosity at ave. soil temperature, µra (g/cm-s)	Vadose zone effective diffusion coefficient, D ^{eff} v (cm ² /s)	Diffusion path length, L _d [cm]
9.24E+05	4,18E-04	15	10,038	5.976.03	2.456-01	1.796-04	3.70E-03	289.6
Convection path length,	Source vapor conc., Carona [µg/m³]	Crack radius, Forst (cm)	Average vapor flow rate into bidg., $Q_{\rm sol}$ [om ³ /s]	Crack effective diffusion cuefficient, D*** [cm²/s]	Area of creck A _{creck} (cm ²)	Exponent of equivalent foundation Peclet number, exp[Pe*]	Infinite source indoor attenuation coefficient, c (unitiess)	infinite source bldg. conc., C _{buldeg} (µg/m³)
15	470E+02	D.10	1.12E+D1	3.705-03	3.84E+02	3.786+51	1.026-04	4.80602

Unit risk Reference factor, conc., URF RHD NA 2.0E+00

INCREMENTAL RISK CALCULATIONS:

Incremental	Hazard
risk from	quotient
Vapor	from vapor
intrusion to	intrusion to
indoor air.	indoor air,
carcinogen	noncarcinogen
(un/dess)	(unitiess)

MESSAGE SUMMARY BELOW:

The same of	Soft	Ses Concentratio	n Data	DATA EI HEET
Chemical CAS No. [numbers only,	ENTER Soil gas pona C	OR	ENTER Soil gas cone. C ₃	DTSC/HBRD 12/1/01
no deshes)	(µg/m²)		(ppmv)	Chemical
108383	9.59E+02			m-Xylene

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE +	below grade to bottom of enoised spece floor; Le (15 or 200 cm)	Soil ges sempling depth below grade, L _e (cm)	Average soil temperature,	Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	User-defined vedose zona apii vapon permeabilky, k, (cm²)
	15	304.8	202	LS		

MORE	ENTER Vedose zone soil dry bulk density, pb^ [g/cm³]	ENTER Vadose zone soil total porcelly, n (undless)	ENTER Vadose zone soil water-filled porosity, 0,,,, [cm³/cm³]
I	1.48	0.457	0204

*	ENTER Averaging time for carcinogens, ATc	ENTER Averaging time for honoarcinogens. ATNo	ENTER Exposure duration, ED	ENTER Expasure frequency,
100	(yrs)	[hts]	(yrs)	(days/yr)
-	70	1 30	30	350

CHEMICAL PRU, LATTES SHEET

Diffusivity in air. D _i (cm ² /s)	Diffusivity in water, D _w (cm ² /s)	Henry's law constant at reference temperature. H (azm-m³/mol)	Henry's law constant reference temperature, Ta [°C]	Enthalpy of vaporization at the normal boiling point, ΔH_{ol} [cal/mol]	Normal boiling point T _e (Ng	Critical temperature, T _c (°K)	Unit risk factor, URF	Reference conc. RfC (mg/m³)	Molecular weight, MW [g/mai]
7.005-02	7.50E-06	7.345-03	25	8.523	412.27	617.05	0.0E+00	7.0E-01	106.17

Source- building separation, L _T (cm)	Vadose zone soli air-filled parosity, 8, 1 [cm ³ /cm ³]	Vadose zone sffective total fluid seturation, S_ [cm ³ /cm ³]	Vadose zone soil intrinsic permeability, k, (cm ²)	Vadose zane soil relative air parmeability, k-g [can ²]	Vadose zone soil effective vapor permeability, k, [cm²]	Floor- wall seam perimeter, Xonak (cm)	Soil gas conc. [ug/m³]	Bidg. ventiletion rate, G _{bullors} [cm ³ /s]
289.6	0.253	0.380	1.656-08	0.717	1.18E08	3,844	9.59E+02	5.53E+04
Area of enclosed space below grade. Ae [cm²]	Crack- co-total area rabb, Ti (unitless)	Crack depth below grade, Zosek (cm)	Enthaloy of vaportzation at ave. soil temperature, ΔH_{ers} [cal/mol]	Henry's law constant at ave. soil temperature, Ha [atmm3/mol]	Henry's law constant at ave. soil temperature, H'm (unitiess)	Vapor viscosity at ave. soil tamperature, [t/g/cma]	Vadose zone effactive diffusion coefficient D ^{ef} y [cm²/≤]	Diffusion path length, L _d (cm)
9,24E+05	4.16E-04	15	10,135	5,556-03	2.30E-01	1.79E-04	3.45E-03	289.8
Convection path length, L _p (cm)	Source vapor conc., Care (rg/m³)	Crack radius, roma (cm)	Average vapor flow rate into bidg., Out [cm ² /s]	Creck effective diffusion coefficient, D ^{ovet} (cm ² /s)	Area of crack, A	Exponent of equivalent foundation Peciet number, exp[Ps]	Infinite source indoor attenuation coefficient, o. (unitiess)	infinites source bidg, conc., Country [Jug/m³)
15	9,596+02	0,10	1.12E+01	3.45503	3.84E+02	1,825+55	9.89E-05	9,466-02

Unit
risk Reference
factor, conc.,
URF RC
(µg/m³) (mg/m³)

NA 7.0601

INCREMENTAL RISK CALCULATIONS:

Incremental	Hazard
risk from	quotient.
vapor	from vapor
intrusion to	intrusion to
indoor air.	indoor air.
carcinogen	noncarcinogen
(unitiess)	[unidess]

MESSAGE SUMMARY BELOW;

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

	Sall	San Concentration	n Data	DATA EI SHEET
ENTER	ENTER Soil		ENTER Soil	DTSC/HERD 12/1/01
CAS No.	gas conc.	OR	gas conc.	
(numbers only, no deshes)	C ₂ [ug/m ³]		C _q (spmv)	Chemical
(10 wastrace)				
100425	4.53E+02			Styrene

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE	below grade to bottom of enclosed space floor; Lp (15 or 200 cm)	Soil gas sampling depth below grade, (cm)	Average soil temperature, Ts (°C)	Vadose zone SCS soil type (used to estimate soil vapor permeability)	DR	User-defined vadose zone soil vapor permeability, k, (cm²)
	15	509.6	202	LS		

MORE ¥	ENTER Vedase zone soil dry bulk density, P (g/cm²)	Vadose zone soil total porosity, n ^V (unitiess)	Vedose zone soil water-filled porosity, 6, [cm³/cm³]
1	1.46	0.457	0204

ORE	ENTER	ENTER	ENTER	ENTER
	Averaging time for carcinogens, AT _C	Averaging time for noncertanogens, ATNC	Exposure duration.	Exposure frequency,
-	(Aur)	(Vrs)	(yrs)	[days/yr]
- 1	70	30	30	350

CHEMICAL PROFERTIES SHEET

Diffusivity in air, D, [cm ² /s]	Diffusivity in water, D, [cm²/s]	Henrys law constant at reference temperature, H [aum-m ³ /mol]	Henry's law constant reference temperature, Tr (°C)	Enthalpy of vaporization at the normal boiling point, \(\Delta H_{\text{in}} \) (cal/mol)	Normal bolling point, Te	Critical tamparature, To ("K)	Unit risk factor, URF (ug/m³) ¹	Reference conc., RIC (mg/m³)	Molecular weight MW (g/mol)
7.10E02	8,005-06	2.766-03	25	8,737	418.31	636.00	0.08+00	9.08-01	104,15

Source- building seperation, L _T (cm)	Vadose zone soil air-filled porosity, 0, v [cm³/cm³]	Vadose zone effective total fluid saturation, S _{bs} [cm ³ /cm ³]	Vadose zone soil intrinsic permeability, k, (cm ²)	Vadose zone soil relative air permeability, k _{ra} (cm ²)	Vadose zone soli effective vapor permeability, k. [cm ²]	Floor- wall seam perimeter, X (cm)	Soil gas conc. [µg/m³]	Bldg. ventilation rate. Galiens [cm ³ /s]
594.6	0.253	0.380	1,65508	0.717	1.18508	3,844	4.63E+02	5.63E+04
Area of enclosed space below grade, As (cm ²)	Crack- to-total area ratio, 1] (unitiese)	Grack depth below grads, Zawa [om]	Enthalpy of vaporization at ave. soil temperature. AH _{elis} [cal/mol]	Henry's law constant at ave, soil temperature, Hrs [atm-m³/mol]	Hanry's law constant at ave, soil temperature, His (unitiess)	Vapor viscosity at ave, soil temperature, µrs (g/cms)	Vadose zone effective diffusion coefficient, D ^{eff} y [cm ² /s]	Diffusion path length, L [cm]
9.24E+D5	4,16E-04	15	10,337	2.07E-03	8,826.02	1.79E-04	3.50E-03	594.6
Convection path length,	Source vapor conc., C _{carce} [µg/m³)	Crack radius, r _{eset} (cm)	Average vapor flow rate into bldg Gas [cm ³ /s]	Crack effective diffusion coefficient, D ^{oest} [cm ² /s]	Area of crack, Acres (cm ²)	Exponent of squivalent foundation Peclet number, exp(Pe ¹)	Infinite source indoor accenticient, ox (unitiess)	Infinite source bidg, conc., Couldng
15	4.53E+02	0.10	1.12E+D1	3.50E03	3.84E+02	2.88E+54	5.50E-05	3.01E-02

Unit risk Reference factor, conc., URF RTC (Mg/m³)-1 (mg/m³) NA. 9.0501

INCREMENTAL RISK CALCULATIONS:

Incremental	Hazard
risk from	quotient
vapor	from vapor
intrusion to	intrusion to
indoor air,	indoor air,
carcinogen	noncarcinoger
[unidess]	(unitiess)

MESSAGE SUMMARY BELOW:

	Soll	Sas Concentration	Data	DATA EL SHEET
ENTER	ENTER		ENTER Soil	DTSC/HERD 12/1/01
Chemical CAS No. (numbers only.	ges cond. C ₂	OR	gas cona. C	
no dashes)	(µg/m³)		(ppmv)	Chemical
95478	4.77E+02			o-Xylene

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE	below grade to bottom of enclosed space floor: Le (15 or 200 cm)	Soil gas sampling depth below grade, L (cm)	Average soil temperature. Ts [°C]	Vedose zone SCS anil type (used to estimate soil vapor permeability)	DFR .	User defined vadose zone soil vapor permeability. (cm²)
	15	304.8	202	LS		

MORE	ENTER Vadase zone soil dry bulk density p _b ^A (g/cm ³)	ENTER Vedose zone soil total porosity, n (unitless)	ENTER Vedose zone soil water-filled porosity, 0,, (cm³/cm²)
1	1,48	0.457	0204

HORE +	ENTER Averaging time for caronogens, AT ₂ (yrs)	ENTER Averaging time for noncorrorogens, ATion ((rs))	ENTER Exposure duration ED (yrs)	ENTER Exposure frequency, EF [days/yr)
ſ	70	30	30	350

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D, (cm ² /s)	Diffusivity in water, D _w (cm ² /s)	Henry's law constant at reference temperature, H [atm-m*/mol]	Henrys lew constant reference temperature, Ta (°C)	Enthalpy of vaporization at the normal boiling point, ΔH_{cb} (cal/mol)	Normal bolling point, To (N)	Critical temperature, T ₂	Unit risk factor, URF [µg/m³] ¹	Reference conc., RfC (mg/ro ³)	Molecular weight, MW [g/mol]
8.705-02	1.00E-05	5.206-03	25	8,881	417.60	630.30	0.0E+00	7.06-01	106.17

Source- building separation, L _T (cm)	Vadose zone soil air-filled porosity, e, v (cm³/cm³)	Vadose zone effective total fluid saturation, 5 (cm²/cm²)	Vadose zone soil intrinsic permeability, k, (cm²)	Vadose zone soil relative air permeability, k _{iy} (cm ²)	Vadose zone soil effective vapor permeability, k, (cm²)	Floor well seam perimeter, Xumb (cm)	Soil gas conc. (µg/m³)	Bldg. ventilation rate, Obuday (cm³/s)
289.8	0.253	0.380	1,65508	0.717	1:18508	3,844	4.77E+02	5.83E+04
Area of enclosed space below grade, As [cm ²]	Crack- to-total area ratio, I) (unit(ess)	Crack depth below grade, Z _{crea} (cm)	Enthalpy of vaporization at ave. soil temperature, \[\Delta H_{\text{cg}} \]	Henry's law constant at ave. soll temperature, Hrs [attn=m³/mol]	Henry's law constant at ave, soil temperature, [unitess]	Vapor viscosity at eve. soil temperature, Pra (g/cm-s)	Vadose zone effective diffusion coefficient, D** [cm*/*s]	Diffusion path length, La (cm)
9.24E+05	4.18E-04	15	10,286	3.91503	1.635-01	1.79E-04	4.29€03	289.8
Convection path length, Lp (cm)	Source vapor conc., Cpars (µg/m³)	Crack radius, r _{onack} (cm)	Average vapor flow rate into bldg., Gm ² /s]	Crack effective diffusion coefficient, D ^{ask} [cm ² /s]	Area of crack, Ama (cm²)	Exponent of equivalent foundation Peclet number, exp[Pe ^t]	Infinite source indoor attenuation coefficient, c. [unitess]	Infinite source bidg, conc., Couldne
15	4.775+02	0.10	1.12E+01	4.29503	3.84E+02	2.88E+44	1.09604	5,225-02

Unit.
risk Reference
factor, conc.,
URF RfC
[µg/m³]¹ (mg/m³)

NA 7.05-01

INCREMENTAL RISK CALCULATIONS:

Incremental	Hazard
risk from	quotient
vapor	from vapor
intrusion to	intrusion to
indoor air,	indoor air.
carcinogen	noncarcinogen
[unitless]	(unitiess)
NA .	7.26-05

MESSAGE SUMMARY BELOW:

MESSAGE; RISIVHQ or risk-based soil concentration is based on a route-to-route extrapolation.

	Soil	Gas Concentration	Data	DATA EI JHEET	
Chemical CAS No. (numbers only.	ENTER Soil gas conc.	OR	ENTER Soil ges cone, C	DTSC/H6AD 12/1/01	
no dashes)	(µg/m²)		(ppmv)	Chemical	_
108678	4888+02			1.3.5-Trimethylbenzene	

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE	below grade to bottom of enclosed space floor, Ly (15 or 200 cm)	Soil gas sampling depth below grade. (cm)	Avorage soil temperature, Ts (°C)	Vadose zone SCS soil type [used to estimate soil vapor permeability]	DR	User-defined vedose zone soit vepor permeability, k, (cm²)
	15	6095	505	LS		

MORE	ENTER Vadose zone soil dry bulk density, Pa ^A (g/om ³)	Vadose zone soil total porosity, n (unitless)	ENTER Vadase zone soil water-filled porossy, 8, (cm ³ /cm ³)
1	1.48	0.457	0204

MORE +	ENTER	ENTER	ENTER	ENTER
	Averaging time for carcinogens. ATc	Averaging time for noncerchagens, AT _{NC}	Exposure duration. ED	Exposure frequency. EF
	(yrs)	(kz)	[yrs]	[days/yr]
1	70	30]	30	950

Diffusivity in air. D _a [cm ² /s]	Diffusivity in water, D _w (cm ² /s)	Henry's law constant at reference temperature. H [atm-m³/mol]	Henry's law constant reference temperature, T _R	Enthalpy of vaporization at the normal boiling point, ΔH_{ch} (cal/mol)	Normal boiling point, T _E (°K)	Critical temperature, T _C (N)	Unit risk factor, URF (µg/m³)1	Reference conc., RfC (mg/m ³)	Molecular weight, MW [g/mal]
7.50E-02	7.105-06	4.05E-04	25	11,360	1 437.80	639.00	0.0E+00	5.0E-03	120.00

								-	
Source- building separation, L ₇ (cm)	Vadose zone soil air-filled poresity, e, (cm³/cm³)	Vadose zone effective total fluid eaturation, [cm³/cm³]	Vadose zone soil Intrinsic permeability, k, (cm²)	Vadose zone soil relative air permeability, r _{ri} cm ²		Vadose zone soil effective vapor permeability, k (cm²)	Floor- wall seam perimeter, Xono: (cm)	Soil gas conc. (ug/m³)	Bidg, ventilation rate, Obsons (cm ³ /s)
584.6	0.253	0,380	1,655-08	0.717	1	1.155-06	3,844	4.66E+02	5.63E+04
Area of enclosed space below grade, A6 [cm²]	Crack- to-total area ratio, 1) (unitless)	Crack depth below grade, Z _{onet} (cm)	Enthalpy of vaporization at ave. soil temperature, \[\Delta H_{ets} \] [cal/mol]	Henry's law constant at ave. soil temperature. Has (atman ³ /mol)		Henry's law constant at ave, soil temperature, H're [unitless]	Vapor viscosity at ava, soil temperature, µs (g/cms)	Vadose zone effective diffusion coefficient. D ^{ef} v [cm ² /s]	Diffusion path tength, L _d (cm)
9.246+05	4.16E-04	15	14,037	2.755-04	T	1.14502	1.795-04	3.715-03	594.6
Convection path length, L _r (cm)	Source vapor conc. Cara (ug/m³)	Crack radiks, Posex (cm)	Average vapor flow rate into bldg G _{roi} [om ³ /s]	Crack effective diffusion coefficient, D ^{crack} [cm ² /s]		Area of crack. Acros (om ⁶)	Exponent of equivalent foundation Pecket number, exp[Ps ¹] [unitiess]	infinite source indoor attenuation coefficient; cx (unideas)	Infinite source bidg canc., Coxes (pag/m ³)
15	4.66E+02	0.10	1.12E+01	3.71503	T	3.84E+02	2.40E+51	6.76E05	3.156-02

Unit risk Reference factor, conc., URF RTC (µg/m³) (mg/m³)

NA 8.0503

RESULT & SHEET

INCREMENTAL RISK CALCULATIONS:

Hazard
quotient
from vapor
intrusion to
indoor air,
noncarcinogen
[unitless]
5.15-03

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

	Solt	Sas Concentration	Data	DATA EL SHEET
ENTER	ENTER Soil		ENTER Soil	DTSC/HERD 12/1/01
CAS No.	gas conc,	OR	gas ponq.	
(numbers only.	C _u		C ₉	
no dashes)	(µg/m*)		[opmv]	Chemical
95363	524E+02			1,2,4-Trimethylbenzene

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE	below grede to bottom of enclosed space floor. L _F (15 or 200 cm)	Soil gas sampling depth below grade. L _e [cm]	Average soil temperature,	Valose zone SCS soil type (used to estimate soil vapor permeability)	OR	(Jacrdefined vadose zone soil vapor parmeability, k, (cm²)
	15	609.6	202	LS		

MORE	ENTER Vadose zone soil dry bulk dersay, p. (g/cm³)	ENTER Vadose zone soil total porosity, n (unitless)	ENTER Vadose zone soll water-filled porosity, e,,' [cm³/cm³]
I	1.46	0.457	0.204

ORE.	ENTER Averaging time for coronogens, ATc	ENTER Averaging time for nonceronogens, AT _{NC}	ENTER Exposure duration, ED	ENTER Exposure frequency, EF
	(yrs)	(yrs)	(vrs)	(days/yr)
	70	30	30	350

Diffusivity in air. D ₃ [cm ² /s]	Diffusivity in water, D., [cm²/s]	Henry's law constant at reference temperature, H [atm-m³/mol]	Henry's law constant reference tamperature, Ta [°C]	Enthalpy of vaporization at the normal boiling point. ΔH_{th} [cal/mol]	Normal bolling point, T _B	Critical temperature, T _C	Unit risk factor, URF (ug/m ³) ¹	Reference conc., RfC (mg/m³)	Molecular weight, MW [g/mol]
7.508-02	7.105-08	4.63E-04	25	11,460	442.40	650.00	0.06+00	6.0E-03	120.00

Source- building separation. L _T	Vadose zone soil air-filled porosity, 6, Y [cm ³ /cm ³]	Vadose zone affective total fluid saturation, So (cm³/cm³)	Vadose zone soil intrinsic permeability, k, (cm ²)	Vadose zone soil relative air permeability, k _{rg} (om ²)	Vadose zone soil effective vapor permeability, k, (cm ⁴)	Floor- well seam perimeter, X-M (cm)	Soil gas conc. (µg/m³)	Bidg. ventilation rate, O _{bodes} (cm ³ /s)
594,6	0.253	0.360	1.85508	0.717	1.18E08	3,844	5.24E+02	5.83E+04
Area of enclosed space below grade, Ag (cm ²)	Crack- to-total area ratio, Ti (unidass)	Crack depth below grade, Z _{orea} (cm)	Enthalpy of vaporization at ave. soil temperature, \[\Delta H_{\tau_c} \]	Henry's law constant at ave, soil temperature, Hhs: [abm-m³/mol]	Henry's law constant at ave, soil temperature, Hins (unbless)	Vapor viscosity at ave, soil temperature, in [g/cms]	Vadose zone effective diffusion coefficient, D ^{eff} v [cm ² /s]	Diffusion path length, L _d [cm]
9.24E+05	4.16E-04	15	14,135	3.136-04	1.30E-02	1.796-04	3.71E-03	594.6
Convection path length. L _p (cm)	Source vapar conc., Crarce (µg/m³)	Crack radius, r _{end} , [pm]	Average vapor flow reta into bldg., $\Theta_{\rm pol}$ [cm ³ /s]	Crack effective diffusion coefficient, D ^{oset} (cm²/s]	Area of crack, Aust	Exponent of equivalent foundation Peciet number, exp(Pe ¹)	infinite source indoor atzenuation coefficient, α (unitiess)	Infinite source bldg. conc., C., and (ug/m³)
15	5.24E+02	0.10	1.12E+01	3.716-03	3.84E+02	2.54E+51	6.766-05	3,545-02

Unit Reference factor, URF conc., RfC (ma/ma) [mg/m³] NA 6.0E-03 END

INCREMENTAL RISK CALCULATIONS:

Incremental	Hazard
risk from	quotent
vapor	from vapor
Intrusion to	מ חמובערלותו
indoor air,	Indoor air,
carcinogen	noncarcinogen
(unidess)	[unitless]
NA.	5.7E-03

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

JOHNSON AND ETTINGER SOIL SCREEN MODEL USING MAXIMUM CONCENTRATIONS

	Soll 6	Sas Concentratio	n Data	DATA EI HEET
ENTER	ENTER Soil		ENTER Soil	DTSC/HERD 12/1/01
Chemical CAS No.	gas cono,	OR	gas conc.	
(numbers only,	C ₂		С,	
no dashes)	Dag/ ric1		(ppmv)	Chemical
75718	7.54E+01			Dichlorodifluoromethane

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE +	below grade to bottom of enclosed space floor, Le (15 or 200 cm)	Soil ges sampling depth below grade, L (cm)	Average soil temperature, Ts	Vadose zona SCS soil type (used to estimate soil vapor permeability)	OR	User-defined vadose zone soil vapor permeability. k, [cm²]
	15	6096	202	LS		

MORE	ENTER Vadose zone soil dry bulk density, Pt (g/cm³)	ENTER Vedose zone soil total porosity, n (unitless)	ENTER Vadose zone soil water-filled porosity, 8, [cm³/cm³]
	1.45	0.457	0204

MORE	ENTER Averaging time for carcinogens, ATo	ENTER Averaging time for noncarcinogens, AT _{NC}	ENTER Exposure duretion, ED	ENTER Exposure frequency. EF
	(yrs)	(hz)	(yrs)	(days/yr)
F	70	30	30	350

	Diffusivity in air. D _e [cm ² /s]	Diffusivity in water, D. [cm²/s]	Henry's law constant at reference tamperablire. H (atm-m³/mol)	Henry's law constant neference comperature, To (°C)	Enthalpy of vaporization at the normal boiling point, ΔH_{co} (cal/mol)	Normal boiling point Ta (N)	Critical temperature, T _C (°K)	Unit risk factor, UAF [ug/m ²] ¹	Reference conc. RfC (mg/m³)	Molecular weight, MW [g/mol]
Г	8.00E-02	1.106-05	7.24E-06	25	5,246	243.00	370,00	0.0E+00	2.0E-01	120.00

Source- building separation, L ₁ (cm)	Vadose zone soil air-filled porosity, 0, (cm³/cm³)	Vadose zone effective total fluid saturation, S _{be} [cm³/cm³]	Vadose zone soll intrinsic permeability, k (cm ²)	Vadose zone soil relative air permeability, k _{re} [cm ²]	Vadose zone soil effective vapor permeability, k, [cm ²]	Floor- wall seam perimeter, X (cm)	Soil gas conc. (ww/m³)	Bidg, ventilation rate, O _{bullion2} (cm ³ /s)
594.6	0.253	0.380	1.655-06	0.717	1.18508	3,844	7.54E+01	5.63E+04
Area of enclosed space below grade, As [cm²]	Crack- to-total area ratio, Ti [unitless]	Crack depth below grade, Z _{grade} (cm)	Enthalpy of vaporization at ave, soil temperature, $\Delta H_{\rm crit}$ (cel/mol)	Henry's lew constant at ave, soil temperature, Hrs (atm-m ³ /mol)	Henry's law constant at ave. soil temperature, Hrs (undess)	Vapor viscosity at ave, soil temperature, [a/re [o/cm-s]	Vadose zone effective diffusion coefficient, D ^{eff} v (cm ² /s)	Oiffusion path length, L _d (cm)
9.246+05	4.16E04	15	4,352	6.425-06	2.67504	1.79E04	4.93E-03	584.6
Convection path length, L _p (cm)	Source vapor cono., C _{cource} (µg/m ³)	Crack radius, r _{ovide} (cm)	Average vapor flow rate into bidg., G _{m3} /s)	Crack effective diffusion coefficient, D ^{osek} (cm ² /s)	Ares of orack, Acres (cm²)	Exponent of equivalent foundation Peclet number, exp(Pe ^t) (unitless)	infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., Coulding (µg/m³)
15	7.54E+D1	0.10	1.12E+01	4.93E-03	3.845+02	4.33E+38	8.096-05	6.105-03

Unit
risk Reference
factor, cono.,
URF RfC
[ug/m³] (mg/m³)

NA 2.0E-01

INCREMENTAL RISK CALCULATIONS:

Incremental	Hazard
risk from	quatient
vapor	from vapur
intrusion to	intrusion to
indoor air.	Indoor air
carcinogen	noncardinogen
(unidess)	(unitless)
	T macas
INA	2.96-05

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

	Sold	Sas Concentration	Data	DATA EI SHEET
ENTER	ENTER Soil		ENTER Suil	DTSC/HERD 12/1/01
Chemical CAS No.	ges cono	DR	gas cone.	
(numbers only, no dashes)	(ug/m³)		(ppmv)	Chemical
75694	1,71E+02			Trichlorofluoromethane

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE	below grade to bottom of enclosed space floor. Le (15 or 200 cm)	Soil gas sampling depth below grade, L (cm)	Average solf temperature, T _S	Vadose tone DCS soil type (used to estimate soil vapor permeability)	OR .	User-defined vadose zone soil vapor permeability, k, (cm²)
	15	609.8	202	LS		

MORE	Vedose zone soil dry bulk density, Po ^A (g/cm ³)	ENTER Vadose zone soil total porosity, n [unitless]	Vadose zone soil water-filed poroalty, e, (cm²/cm³)
I	1.48	0.457	0204

MORE	Averaging time for caroinogens, AT _C [yrs]	ENTER Averaging time for nonceromogens, ATno (yrs)	ENTER Exposure duration, ED (yra)	ENTER Exposure frequency EF (deys/yr)
	70	30	30	350

Diffusivity in air, D ₄ (cm ² /s)	Diffusivity in water, D _# [cm ² /s]	Henry's law constant at reference temperature, H [atm-m ³ /mol]	Henry's law constant reference temperature, Ta (°C)	Enthalpy of vaporization at the normal boiling point. ΔH_{tb} [cal/mol]	Normal boiling point, T _B	Dritical temperature, To (K)	Unit risk factor, URF (ug/m ³)	Reference conc., ArC (mg/m³)	Molecular weight MW (g/mol)
E706-02	1.306-05	3.086-05	25	6,168	298.87	471.15	0.0E+00	7.06-01	137.40

Source- building separation, L _T (cm)	Vadose zone soil air-filled porosity, 8,V [cm³/cm³]	Vadose zone effective total fluid saturation, Sb (cm³/cm³)	Vadose zone soil inzrinsic permeability, k [cm ²]	Vadose zone soil relative air permeability, kg [cm²]	Vadose zone soil effective vapor permeability, k, (om ²)	Floor- wall seam perimeter, X _{ovit} (cm)	Soil gas conc. [µg/m³]	Eldg. ventilation rate, G _{ollong} [cm ³ /s]
594.6	0.253	0.380	1.85508	0.717	1.185-08	3,844	1.71E+02	5.63E+04
Area of enclosed space below grade, A ₆ [cm ²]	Crack- to-total area ratio, II (unitiess)	Crack depth below grade, Zowa [cm]	Enthalpy of vaporization at ave. soll temperature, $\Delta H_{\rm clin}$ (cal/mol)	Henry's law constant at ave. soil temperature, His (atmin*)/mol()	Henry's law constant at ave, soil temperature, Hire [unitiess]	Vapor viscosity at ave. soil temperature, µrs [g/cm-s]	Vadose zone effective diffusion coefficient D ^{eff} y [cm ² /s]	Diffusion path length, Let [cm]
9.24E+05	4.16E04	15	5,211	2.596-05	1.08603	1.795-04	4.595-03	594.6
Convection path langth,	Source vapor conon Coores [µg/m³)	Orack radius, Forack (cm)	Average vapor flow rete into bldg., God (cm ³ /s)	Crack effective diffusion coefficient Down [cm²/s]	Area of crack A _{onice} (cm ²)	Exponent of squivalent foundation Peclet number, exp[Pe']	Infinite source indoor accentiation coefficient cc (unlesss)	infinite source bidg, conc., Chang [µg/m³]
15	1.71E+02	0,10	1.12E+01	4.58E03	3.84E+02	4.49E+41	7.736-05	1.326-02

Unit risk Reference factor, conc., URF RfC [µg/m³] [mg/m³]

INCREMENTAL RISK CALCULATIONS:

Incremental rekfrom	Hazard
vapor	from vapor
Intrusion to	Intrusion to
indoor air.	indoor air,
carcanogen	noncarcinogen
(unidess)	(unitless)
NA	1.85-05

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

100	Soil (Sas Concentratio	in Data	DATA E. SHEET
Chemical CAS No. [numbers only, no dashes]	ENTER Soil gas conc. C ₂ [µg/m ²]	DR	ENTER Soil gas conc. C _{ii} [ppmv]	DTSC/HERD 12/1/01 Chemical
71556	7.786+00			1,1,1-Trichloroethane

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE	below grade to bottom of anciosed space floor, L _e (15 or 200 cm)	Soil gas sampling depth bekwy grade, L (cm)	Average sail temperature, T _S	Vadose zone SC5 soil type [used to estimate soil vapor permeability)	OR	User-defined vadose zone soil vapor permeability, k, (cm²)
	15	304B	202	LS		

MORE	ENTER Valose zone soil dry bulk density, P. ^A (g/cm ³)	ENTER Vadose zone soil total porosity, n (unitless)	Vedose zone soil waterfilled porosity, e,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1	1.46	0.457	0.204

MORE .	ENTER Averaging	ENTER Averaging	ENTER	ENTER
	time for carcinogens ATc	time for noncarcinogens, AT _{NC}	Exposure duration, ED	Exposure frequency, EF
	(yra)	(yrs)	(yrs)	[days/yr]
1	70	30	30	350

Diffusivity in air, D, (cm²/s)	Diffusivity in water, D _w [cm ² /s]	Henry's law constant at reference temperature, H [atm-m ³ /mol]	Henry's law constant reference temperature, T _R [C]	Enthalpy of vaporization at the normal builing point, ΔH_{el} (cal/mol)	Normal boiling point, T _E	Critical temperature, T _C (%)	Unit risk factor, URF [µg/m³]	Reference conc., RfC (mg/m³)	Molecular weight, MW (g/mol)
7.805-02	8.605-06	1.726-02	25	7,138	347.24	545.00	0.0E+00	1.0E+00	133.41

Source- building separation, L _T	Vadose zone soil air-filled porosity, e, (cm³/cm³)	Vadose zone effective botal fluid saturation, S. [cm ³ /cm ³]	Vadose zone soil intrinsio permeability, k, [cm²]	Vadose zone soil relative air permeability, k _n (cm ²)	Vadose zone soil effective vapor permeability, k, [cm²]	Floor- wall seam perimeter, X _{cred} [cm]	Soil gas cone. (l/g/m³)	Eldg, ventilation rate, Outdry (cm ³ /s)
289.8	0.253	0.380	1.855-08	0.717	1.186-08	3,844	7.76E+00	5.63E+04
Area of enclosed space below grade, As (cm²)	Crack- po-total area ratio, n (unidess)	Creck depth below grade, Z _{orok} (cm)	Enthalpy of vaporization at ave. soil temperature, AHers (cal/mol)	Henry's law constant at ave, soil bemperature, His [atm-m³/mol]	Henry's law constant at ave. soil temperature, Hrs (unitiess)	Vapor viscosity at ave. soll temperature, µ ₁₉ . (g/cms)	Vadose zone effective diffusion coefficient, D ^{at} v [cm ² /s]	Diffusion path length, L _d (tm)
9.24E+D5	4.18E-04	15	7,774	1,395-02	5.76801	1,796-04	3.846-03	289.B
Convection path length, Lp [cm]	Source vapor conc. Come	Crack radius, Fowk (cm)	Average vapor flow rate into bidg., Gual [cm ³ /s]	Crack effective diffusion coefficient Dook [cm²/s]	Area of crack, A cres (cm ²)	Exponent of equivalent foundation Peclet number, exp(Pe ^t) (unitesa)	Infinite source indoor attenuation coefficient, a (unitiess)	Infinite source bidg, canc, Childry (µg/m³)
15	7.76E+00	0.10	1.12E+01	3.84E03	3.84E+02	3.87E+49	1,045-04	8.07E-04

Unit risk Reference factor, conc., URF RfC [µg/m³]¹ (mg/m³)

NA 1.0E+00

INCREMENTAL RISK CALCULATIONS:

incremental	Hazard
risk from	quotient
vapor	from vapor
intrusion to	intrusion to
indoor air.	indoor air,
carcinogen	noncaromogen
(unitless)	[unitless]

MESSAGE SLIMMARY BELOW

DATA EN. SHEET Soil Gas Concentration Data ENTER ENTER ENTER DTSC/HERD 12/1/01 Soil Soll OR Chemical gas pas CAS No. conc. DONG (numbers only, Cy C, (ug/m²) no dashes) (ppmv) Chemical 6.17E+00 71432 Benzene ENTER ENTER ENTER ENTER ENTER Depth MORE User-defined below grade Soil gas Vagose zone . to bottom sampling Average SCS vadose zone of enclosed depth 508 soil type nogev lice space floor. permeability. balow grade. temperature, (used to astimate DH Ts soll vapor 4 4 [cm²] [15 or 200 cm] 10 permeability) [cm] 15 3048 202 LS

ENTER Vadose zone soil dry bulk density. Pt ^A [g/cm ²]	Vadose trons solitotal porosky. n* [unitiesa]	Vadose zona soil water-filled porosky, B, (cm²/cm²)	
1.46	0.457	0.204	
ENTER Averaging	ENTER Averaging	ENTER	ENTER
time for	time for	Expasure	Exposure
7,700			frequency.
(yrs)	AT _{NE} (yrs)	(vrs)	[days/yr]
	epil dry bulk density. Ash (g/cm²) 1.48 ENTER Averaging time for parcinogens, ATp	abil dry bulk density. porosky. pe ^A n ^V (g/cm ^S) [unitless] 1.48 0.457 ENTER ENTER Averaging Averaging time for parcinogens, AT _D AT _{NC}	bulk density. porosky. porosky. At a n

Diffusivity in air, D _s [cm ² /s]	Diffusivity in water, D _w (cm ² /s)	Henry's law constant at reference beinperature, H [atm-m ³ /mol)	Henry's law constant reference temperature, [°C]	Enthalpy of vaporization at the normal boiling point, $\Delta H_{\rm cir}$ (cal/mol)	Normal boiling point Ts (%)	Criscal temperature, To (N)	Unit risk factor, URF (ug/m ³) ⁻¹	Reference conc., RfC (mg/m ³)	Molecular weight MW (g/mol)
8.805-02	9.806-06	5.566-03	25	7,342	353.24	562.16	2.98-05	6.06.02	78.11

Source building separation, Lq (cm)	Vadose zone soil air-filled porosity, θ_s^V [cm³/cm³]	Vadose zone effective total fluid saturation, S _{in} [cm ³ /cm ³]	Vadose zone soil intrinsic permeability, k, (cm ³)	Vadose zone soli relative air permeablity, k _{ru} [cm²]	Vadose zona soil effective vapor permeability, k _v [cm ²]	Floor- wall seam perimeter, X _{trad} (cm)	Soil gas conc. (µg/m³)	Bidg. ventilation rate, G _{besting} (cm ³ /s)
289.8	0.253	0.380	1.656-08	0.717	1.185-08	3,844	6.17E+00	5.63E+04
Area of enclosed space below grade, As (cm²)	Crack- to-total area ratio, ຖ (unitiess)	Crack depth below grade, Zeek (cm)	Enthalpy of vaporization at ave. soil temperature, AH _{crs} (cal/mol)	Henry's law constant at ave. soil temperature, Hrs [atm-m ³ /mol]	Henry's law constant at ave, soil temperature, H1s (unitless)	Vapor viscosity at: aye, soil tamperature, µrs (g/cm-s)	Vadose zone effective diffusion coefficient, Diff _V [cm ² /s]	Diffusion path length, L [em]
9.24E+D5	4.16E-04	15	B,017	4,465-03	1.856-01	1.795-04	4.34E-03	289.8
Convection path length, L _o (cm)	Source Vapor conc., Chara	Crack radius, Ponel (cm)	Average vapor flow rate into bidg., O _{zol} [cm ³ /s]	Crack effective diffusion coefficient, D ^{oest} [cm ² /s]	Area of crack, Acres (cm ²)	Exponent of equivalent foundation Peclet number, exp(Pe')	Infinite source indoor accenuation coefficient α (unitess)	Infinite source bldg. cono., Cooking [pg/m ²]
15	6.17E+00	0.10	1.12E+01	4.345-03	\$84E+D2	8.99E+43	1.108-04	6.79E-04

Unit
risk Reference
factor, conc.
URF RIC
(µg/m³) (mg/m³)

2.9505 6.0502

INCREMENTAL RISK CALCULATIONS:

incremental	Hazard
risk from	quotient
vapor	from vapor
intrusion to	intrusion to
indoor air,	indoor air,
carcinogen	noncarolnogen
[unidess]	(unidess)

MESSAGE SLIMMARY BELOW:

ALCOHOL: N		Sas Concentration		
ENTER	ENTER		ENTER	DTSC/HERD 12/1/01
Chemical	gas	OR	gas	
CAS No.	cana,		cono.	
(numbers only,	C		C,	
no dashes)	(µg/m³)		[ppmv]	Chemical
108883	9.96E+01			Toluene

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE	below grade to bottom of enclosed space floor. Le [15 or 200 cm]	Soil gas sampling depth below grade. L (orn)	Average soil temperature,	Vedose zone SCS soil type (used to estimate soil vapor permeability)	DR	User-defined vedose zone spil vepor permeability, k, (om ³)
	15	304.8	202	LS		

MORE	ENTER Vadose zone soil dry bulk density. p. ^A (g/cm ³)	ENTER Vadose zone soli total porosity, n (unitiess)	Vadose zone soil water-filled porosity, 0, ^V (om ³ /om ³)
1	1.48	0.457	0204

*	ENTER Averaging time for carcinogens,	Averaging time for noncarcinogens.	ENTER Exposure duration,	ENTER Exposure Insquency,
	AT _c (yrs)	AT _{NC} [yrs]	ED (yrs)	[days/yr]

Distusivity in air, D _{ii} (cm ² /s)	Diffusivity in water. D_ [cm²/s]	Henry's law constant at reference temperature, H [atm-m³/mol]	Henrys law constant reference temperature, Ta (°C)	Enthalpy of vaporization at the normal boiling point, ΔH_{cb} (cal/mol)	Normal boiling point. T _B	Critical temperature, To (N)	Unit risk factor, URF (µg/m³) ¹	Reference conc. RfC (mg/m³)	Molecular weight, MW
8.708-02	8.60E-06	6.636-03	25	7,930	383.78	591.79	0.06+00	3.05.01	92.14

Source- building separation, L _T (cm)	Vadose zone soil air-filled porosty; 0, V (cm³/cm³)	Vadose zone effective cotal fluid saturation, S _H (cm³/cm³)	Vadose zone soil intrinsic permeability, k (cm ⁸)	Vadose zone soil relative air permaability, kg (cm²)	Vadose zone soil effective vapor permeability, k, [cm ³]	Floor- wall seam perimeter, X _{creta} (cm)	Soil gas conc. [µg/m³]	Bidg. ventilation rate, Coulding [cm ³ /s]
289,8	0.253	0.380	1.856-08	0.717	1.18608	3.844	9.96E+01	5.63E+04
Area of enclosed space below grade, As (cm ²)	Crack- to-total area ratio, Ti (untress)	Crack depth below grade, Zuek (cm)	Enthalpy of vaporization at ave. soil temperature, \[\Delta H_{vis} \] \[\left(\text{CSI/mol} \right) \]	Henry's law constant at ave. soil temperature, H ₁₅ (etn-m ³ /mol)	Henry's law constant at ave, soil temperature, HTB (unatess)	Vapor viscosity at ave, soil temperature, µis [g/cm-s]	Vedose zone effective diffusion coefficient, [Cm*/s]	Diffusion path length, L _d (cm)
9.24E+05	4.168-04	15	9,043	5.16E-03	2.15E01	1.795-04	4.296-03	289.8
Convection path length, L (cm)	Source vapor conc., Cerca (rg/m²)	Crack radius. 'Feat [om]	Average vapor flow rete http bldg., D _{rol} (cm ³ /s)	Crack effective diffusion coefficient, D ^{rock} (cm ² /s)	Area of crack Arack (cm²)	Exponent of equivalent foundation Peolet number, exp(Pe ¹) (unitiess)	Infinite source indoor attenuation coefficient; c [unitiess]	Infinite spurce bidg conc., Coulding [ug/m ⁵]
15	9.966+01	0.10	1.126+01	429503	3.84E+02	2.90E+44	1.096-04	1.09E-02

Unit risk Reference factor, conc. RIC URF (jug/m³)¹ (mg/m³) NA 3.0501 END

INCREMENTAL RISK CALCULATIONS:

incremental	Hazard
risk from	quotient
vapor	from vapor
intrusion to	ot noieurtni
indoor air,	indoor air,
carcinogen	noncarcinoger
[unitiess]	(unitless)

MESSAGE SLIMMARY BELOW:

	Soil (Sas Concentration	Data	DATA EL SHEET
Chemical CAS No. [numbers only, no dashes]	ENTER Soil gas conc. C ₂ [ug/m ²]	OR	ENTER Soil gas conc. G	DTSC/HERD 12/1/01 Chemical
79016	2.07E+01			Trichlorgethylene

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE	below grade to bottom of enclosed space floor, Le (15 or 200 cm)	Soil gas sampling depth below grade, L (cm)	Averaga soil temperature, T _S (°C)	Vadosa zone SCS Soil type [used to estimate soil vapor permeability]	OR .	User-defined vedose zone soil vapor permesbility, k, [cm²]
	15	2743	202	LS		

MORE #	ENTER Vadose zone soil dry bulk dansity. &^ (g/om³)	ENTER Vadose zone soit total purceity, n (unitless)	ENTER Veduse zone soil waterfilled porosity, e, V [cm³/cm³]
[1,46	0.457	0204

+	ENTER	ENTER	ENTER	ENTER
	Averaging time for careinogens, AT ₂	Averaging time for noncercmogens, ATNC (ves)	Exposure duration. ED (yrs)	Exposure frequency, EF (days/yr)
	(M2)	[M.8]	30	(Gays/ yr)

Diffusivity in air. D _s (cm ² /s)	Diffusivity in water, D., [cm²/s]	Henry's law constant at reference temperature, H (atm-m³/mol)	Henry's law constant reference temperature, Te ("C)	Enthalpy of vaporization at the normal boing point. AR _a (cal/mol)	Normal bolling point, Te (%)	Criscal temperature, T _C	Unit risk factor, URF [µg/m ³] ¹	Reference comc., AfC: [mg/m³]	Molecular weight MW [g/mol]
7.90E-02	9.106-08	1.036-02	25	7,505	360.36	544.20	5.05-06	8.05-01	131.39

Source- building separation, L ₇ [pm]	Vadose zone soil air-filled porosity, 9, (cm²/cm³)	Vadose zone effective total fluid saturation, 5_ (cm³/cm³)	Vadose zone soil intrinsic permeability, k (cm²)	Vadose zone soil relative air permeability, lk _{rg} (cm ²)	Vadosa zone soil affective vapor permeability, k, (cm²)	Floor- wall seam perimeter, X _{cred} (cm)	Soil gas conc. (µg/m³)	Eldg. ventilation rate, Chang (cm²/s)
259.3	0.253	0.380	1.858-08	0.717	1.185-08	3,644	2.07E+01	5.63E+04
Area of enclosed space below grade, Ag (cm²)	Crack- to-total area ratio, n [unidesa]	Crack depth below grade, Zonok [cm]	Enthalpy of vaportzatzon at ave, soil temperature, AHLTB [csl/mol]	Henry's law constant at ave. soil temperature, Hma [atm-m ³ /mol]	Henry's law constant at ave, soil temperature, Hrs [untless]	Vapor viscosity at ave, soil temperature, Prs [g/cms]	Vadose zone effective diffusion coefficient, D ^{eff} v [cm ² /s]	Diffusion path length. Lo [cm]
9.24E+05	4.16E04	15	8,430	B 16E-03	3.39E01	1,79E-04	3.89503	259.3
Convection path length, Lp [cm]	Source vapor conc., C _{source} (µg/m³)	Crack radius, Fond (cm)	Average vapor flow rate into bidg., [om ³ /s]	Crack effective diffusion coefficient, Done [cm²/s]	Area of crack. Area [om ²]	Exponent of equivalent foundation Peolet number, exp[Pe ¹]	Infinite source indoor attenuation coefficient a (universe)	Infinite source bidg. porc., Coulong (yg/m³)
15	2.07E+01	0.10	1.12E+01	3.885.03	3.845+02	9.285+48	1.10E-04	2.28E-03

Unit
risk Reference
factor, conc.,
URF RfC
[µg/m³] (mg/m³)
2.0508 6.0501

INCREMENTAL RISK CALCULATIONS:

Incremental	Hazard		
risk from	quotient		
vapor	from vapor		
intrusion to	intrusion to		
indoor air,	Indoor air,		
carcinogen	honcaronogen		
(unitiess)	(unitless)		

MESSAGE SLIMMARY BELOW:

	Sail	Gas Concentration	Date	DATA EN SHEET	
ENTER	ENTER		ENTER Soil	DTSC/HERD 12/1/01	
CAS No.	gas conc.	DR	ges conc.		
(numbers only.	C ₉		C,	400	
no dashes)	(ug/m²)		[pp/nv]	Diemical	-
127184	5.79£+03			Tetrachloroethylene	

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE	below greds to bottom of enclosed space floor, Lr [15 or 200 cm]	Soi gas sampling depth below grade. L, (cm)	Average soil temperature. Ts [°C]	Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	User-defined vadose zona soil vapor permeabilisy, k, (cm ³)
	15	2743	202	LS		

MORE	ENTER Vadose zone soil dry bulk densky, p, (g/cm²)	ENTER Vadosa zone soil total porosity, n ^V (unitless)	Vadose zone soil water-filled porosity. 0," (cm ³ /cm ³)
T	1.46	0.457	0204

WORE	ENTER Averaging	ENTER Averaging	ENTER	ENTER
	time for carolnogens, AT _D	time for noncercinogens, ATuc	Exposure duration, ED	Exposure frequency. EF
-	70	(yrs)	(yrs)	(days/yr) 350

Diffusivity mair, D _s (cm ² /s)	Diffusivity in water, D _u [cm ² /s]	Henry's law constant at reference temperature, H [atm-m ³ /mol]	Henry's lew constant reference temperature, Ta	Enthalpy of vaporization at the normal boiling point. ΔH _{cs} [cal/mol]	Normal bolling point, T ₅	Critical temperature, T _C (%)	Unic risk factor, URF (yg/m³) ¹	Reference conc., Arc (mg/m³)	Molecular weight, MW (g/mol)
7.20E-02	8.206-06	1 84602	25	8,288	1394.40	620.20	5,95-06	3.5E02	165.83

Source- building separation, L ₁ (cm)	Vadose zone soil air-filled perosity, θ_3^V [cm³/cm³]	Vadose zone effective total fluid saturation, S _M [cm ³ /cm ³]	Vadose zone soil intrinsic permeability, k (cm²)	Vadose zone spil relative eir permeability, kin (pm²)	Vadose zone soil effective vapor permeability, k, [cm ^E]	Floor- wall seam perimeter, X _{outo} (om)	Soil gas cone. [jug/m³]	Bidg. ventilation rate, Graden [om ³ /s]
259.3	0,253	0.380	1.65E08	0.717	1,185-08	3,844	5,79E+03	5.63E+04
Area of enclosed space below grade, Ag (cm²)	Crack- to-total area ratio, Il (unitiesa)	Crack depth below grade, Zost (cm)	Enthalpy of vaporization at ave, soil temperature, $\Delta H_{\rm kits}$ (cal/mol)	Henry's law constant at: ave. soil temperature, His [aon-m³/mol]	Henry's law constant at ave, soit temperature, Hire [unidess]	Vapor viscosity at ave, soil temperature, µrs [g/cmxs]	Vadose zona effective diffusion coefficient, D ^{eff} v (cm ² /s)	Diffusion path length, L, (cm)
9.24E+05	4.18504	15	3,449	1.425-02	5.895-01	1.798-04	3.556-03	259.3
Convection path length, L _p (cm)	Source vapor conc., Carra	Crack radius, r _{mes} (cm)	Average vapor flow rate into bidg., $Q_{\rm min}^2$	Crack effective diffusion coefficient, D ^{osso} (cm ² /s)	Area of orack. Area (cm²)	Exponent of equivalent foundation Peclet number, exp(Pe') [unities]	Infinite source indoor attenuation coefficient a [unitless]	Infinite source bldg, conc., Challing (Mg/m)
15	5.79E+03	0.10	1.126+01	3.555-03	3.84E+02	5,40E+53	1.066-04	6,116-01

Unit:
risk Reference
factor, conc.,
URF RIC
(µg/m³[1] (mg/m³]

5.9505 3.5502

INCREMENTAL RISK CALCULATIONS:

incremental	Hazard		
risk from	quotient		
vapor	from vepor		
intrusion to	intrusion to		
indoor air,	Indoor air,		
carcinogen	noncarcinegen		
[unidess]	(unidess)		
1,5E-06	1.7E-02		

MESSAGE SLIMMARY BELDW:

	Soil	Sas Concentration	Data	DATA EN. SHEET
Chemical CAS No. [numbers only.	ENTER Soil gas conc., C ₄	OR	ENTER Soil gas conc. C,	DTSC/HEAD 12/1/01
no dashes)	[µg/m²]		(ppmv)	Chemical
100414	2 985+02			Ethulhanzeria

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE	below grade to bottom of enclosed space floor, Le (15 or 200 cm)	Soil gas sampling depth below grade, L (cm)	Average soil temperature, Ts (°C)	Vadose zone SCS soil type (used to estimate soil vapor permeability)	DR	Userdefined vedose zone soll vapor permeability. k, [cm²]
	15	304.8	202	LS		

MORE ¥	ENTER Vadose zone soil dry bulk density. po ^A (g/cm ^S)	ENTER Vadose zone soil total porosity. n ^V (unitless)	ENTER Vadose zone soil water-filled porosity, 8," [cm3/cm3]
1	1.46	0.457	0204

E	ENTER	ENTER Averaging	ENTER	ENTER
	time for caroinogens.	time for noncarcinogens. AThe	Exposure dunation. ED	Requestry.
à	(yrs)	(yrs)	(yes)	(days/yr)
F	70	30 1	30	350

CHEMICAL PROPERTIES SHEET

Diffusivity in air. D, (cm²/s)	Diffusivity In water D _w (cm²/s)	Henry's lew constant at reference temperature, H (atm-m³/mol)	Henry's law constant reference temperature. Te (°C)	Enthalpy of vaporization at the normal boiling point, ΔH_{ch} [cal/mol]	Normal boiling point Te (°K)	Critical temperature, T _C (°K)	Unit resk factor, URF (µg/m ³) ⁻¹	Reference cond., PrC (mg/m ³)	Molecular weight, MW (g/mol)
7.506-02	7.80E-06	7.888-03	25	8,501	409.34	617.20	0.0E+00	2.05+00	106.17

INTERMEDIATE CALCULATIONS SHEET

Source- building separation, L _T	Vadose zone soil air-filed porosity, θ_{ν}^{V} (cm ³ /cm ³)	Vadose zone effective total fluid saturation, S _a [cm ³ /cm ³]	Vadose zone soil intrinsic permeability, k (cm²)	Vadose zone soil relative air permeability, k _e [cm [®]]	Vadose zone soil effective vapor permeability, k, [cm ²]	Floor- well seam perimeter. X _{out} (cm)	Soil gas conc. (µg∕m³)	Bidg. Ventilation rate, Gouldny (cm²/s)
289.8	0.253	0.380	1.65E08	0.717	1.186-08	3,844	2.96E+02	5.63E+04
Area of enclosed space below grade Ag (cm²)	Creck- to-total area ratio, I [unidess]	Craok depth below grade, Z _{crack} [cm]	Enthalpy of vaporization at ave. so; temperature, ΔH_{vis} [cal/moi]	Henry's law constant at ave. soil temperature, this [attram3/mol]	Henry's law constant at ave. soil temperature, HTB	Vapor viscosity at ave. soil temperature, µ _{TE} (g/cm-s)	Vadose zone effective diffusion coefficient, D ^{eff} v [cm ² /s]	Diffusion peth length, L _d (cm)
9.24E+05	4.16604	15	10,036	5,975-03	2.48E-01	1.79E-04	3.705-03	289.8
Convection path length, L ₂ (orn)	Source vapor conc., Crowca (Mg/m³)	Crack radius, P _{Crack} (cm)	Avarage vapor flow rabe into bldg., D _{rol} [cm ³ /s]	Crack effective diffusion coefficient, D ^{CTAL} [cm ² /s]	Area of crack, Area (cm ²)	Exponent of equivalent foundation Peclet number, exp[Pe ^c] (unideas)	Infinite source indoor attenuation coefficient; c. (unitless)	infinite source bldg, conc., Cmds
15	2.966+02	0.10	1.12E+01	3,70E-03	3.846+02	3.78E+51	1.02E-04	3.025-02

Unit risk Reference factor, conc., URF RTC (Mg/m³) (mg/m³) NA 2.0E+00

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental	Hazard
rekfrom	quotient
Joden	from vapor
intrusion to	intrusion to
indoor sir,	Indoor air,
carcinogen	noncaroinogen
(unidess)	(unitiess)

MESSAGE SUMMARY BELOW:

	Solid	Sas Concentration	Data	DATA EI SHEET
ENTER	ENTER Soil		ENTER Soil	DTSC/HERD 12/1/01
Chemical CAS No.	gas conc.	DR	gas conc.	
(numbers only.	Cg		Cy	
no dashes)	(ug/m³)		(ppmv)	Chemical
108383	1.15E+03			m-Xylene

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE .	below grade to bottom of enclosed space floor, Le (15 or 200 cm)	Sall gas sampling depth below grade, L (cm)	Awarege soil temperature, Ts (°C)	Vadose zone SCS soil type (used to estimate soil vapor permeability)	CR	Unordefined vedose zone soil vepor permeability. k, [om ²]
	15	304.8	50.2	LS		

soil dry bulk density, Ps ^A (g/cm ³)	porosity, n ^V (untiess)	soil water filed porosity, θ_{ω}^{V} (cm ² /cm ³)
--	--	---

WORE.	ENTER Averaging time for	ENTER Averaging time for	ENTER Exposure	ENTER Exposure
	carcinogens.	noncarcinogens. AT _{NC}	duration,	frequency, EF
	(yrs)	(yrs)	(yrs)	[days/yr]
1	70	30 [30	350

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D _# [cm ² /s]	Diffusivity in water, D _w (cm ² /s)	Henry's law constant at reference temperature, H [atm-m ³ /mof]	Henrys law constant reference temperature, Tg (°C)	Enthalpy of vaporization at the normal boiling point, ΔH_{ib} [cal/mai]	Normal boiling point, T _B	Oritical temperature, T _C (°K)	Unit risk factor, URF (µg/m³) ¹	Reference conc., AIC [mg/m ³]	Molecular weight, MW (g/mol)
7.00E-02	7,805-06	7.34603	25	8,523	412.27	817,05	0.0E+00	7.0501	106.17

INTERMEDIATE CALCULATIONS SHEET

Source- building separation, L _r (cm)	Vadose zone soil air-fillad porosity, 8, V [cm³/cm³]	Vedose zone effective total fluid saturation, Sia (cm³/cm³)	Vadose zone soil intrinsic permeability, k (cm ^E)	Vadose zone soil relative air permeability, k _e (cm²)	Vadase zone soil effective vapor permeability, k, [am²]	Floor- wall seam parimeter, X _{owex} [cm]	Soil gas canc. (µg/m³)	Bidg. ventiletion rate, C _{bedg} (cm ³ /s)
289.8	0.253	0.380	1.655-08	0.717	1.186-08	3,844	1.15E+03	5.63E+04
Area of enclosed space below grade, Ag (cm²)	Crack- to-total area ratio, I] [unitless]	Orack depth below grade, Zenok (cm)	Enthalpy of vaporization at ave, soil temperature, ΔH_{TB} [cal/moi]	Henrys law constant at ave, soil temperature, His (atm-m³/mol)	Henry's law constant at ave, soil temperature, Hits (unidess)	Vapor viscosity at ave, soil temperature, pre (g/cms)	Vadose zone effective diffusion coefficient, D ^{aff} v [cm ² /s]	Diffusion path length, L ₃ (cm)
9.24E+05	4.166-04	15	10,135	5.555-03	2.306-01	1.79604	3,45E-03	289.8
Convection path length, L _p (cm)	Source vapor conc., C	Crack radius, reset (cm)	Average Vapor Flow rate into bldg., G_3 [cm³/s]	Crack effective diffusion coefficient, [cm²/s]	Area of crack, Area (cm ²)	Exponent of equivalent foundation Peclet number, exp(Pe ¹)	Infinite source indoor stranuation coefficient, cu [Unidless]	Infinite source bldg conc., Chuldre (yg/m³)
15	1.15E+03	0.10	1.18E+01	3.45E-03	3.845+02	1.626+55	9,866-05	1,136-01

Unit
risk Reference
factor, conc.,
URF RfC
(µg/m³)-1 (mg/m³)

NA 7.05-01

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

incremental	Hazard
risk from	quotient
vapor	from vapor
intrusion to	intrusion to
indoor air,	indoor air.
carcinogen	noncarcinogen
(unitless)	(unidess)
NA.	1.8E-04

MESSAGE SUMMARY BELDW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

	Soil	Gas Concentration	Date	DATA E. SHEET	
Chemical CAS No. (numbers only.	ENTER Soil ges conc. C ₂ (µg/m ³)	OR	ENTER Soil gas conc.	DTSC/HERD 12/1/D1	
no dashas)			(ppmv)		
100425	1.19E+01			Styrene	

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE	below grade to bottom of enclosed space floor; Le (15 or 200 cm)	Soli gas sampling depth below grade, L (cm)	Average soil temperature, T ₆ (°C)	Vadose zone SCS sof type (used to estimate soil vapor permeability)	OR	User-defined vadose zone soil vapor permeability. k, [cm²]
	15	609.6	202	LS		

MORE	ENTER Vedose zone soil dry bulk density. Ps^ (g/cm ³)	ENTER Vadose zone sui total porosity, n [unitiess]	ENTER Vadose zone soil water-filed porosity, 6,, (cm²/cm²)
1	1.46	0.457	0204

Averaging time for carcinogens. AT _C	ENTER Averaging tima for noncercloagens. ATino	ENTER Exposurs duration, ED	Exposure frequency EF
(yrs)	(yrs)	(yrs)	[days/yr]
70	30	30	350

ENO

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D _e [cm ² /s]	Diffusivity in water, D _w [cm ² /s]	Henry's law constant at reference bemperature, H [aum-m ³ /mol]	Henry's law constant reference temperature, Ta [°C]	Enthalpy of vaporization at the normal boiling point, ΔH_{ch} (cal/mol)	Normal boiling point TE	Craical temperature, To (°K)	Unit risk factor, URF (ug/m³) ¹	Reference conc RTC (mg/m²)	Molecular weight, MW (p/mol)
7.10E-02	8.008-08	2.765-03	25	8,737	41831	635.00	0.0E+00	9.05-01	104.15

INTERMEDIATE CALCULATIONS SHEET

Source- building separation, L ₇ (cm)	Vadose zone soil air-filed porosity, 6, (cm ³ /cm ³)	Vadose zone effective total fluid saturation, S _a [cm ³ /cm ³]	Vadose zone soil intrinsic permeability, ky (cm ²)	Vadose zone soil relative air permeability, k _{rg} (cm ²)	Vadose zone soil effective vapor permeability, k, [cm²]	Floor- wall seam perimeter, X _{orek} [cm]	Soil gas conc. [µg/m³]	Bidg. ventilation rate, Guidos [cm ³ /s]
594,6	0.253	0.380	1.65E-08	0.717	1.186-08	3,844	1.19E+01	5.63E+04
Area of enclosed space below grade, As (cm ²)	Crack- to-total area ratio, Ti (unidess)	Crack depth below grade, Z _{crack} (cm)	Enthalpy of vaporization at ave. soil tamperature, ΔH_{CR} [cal/mol]	Henry's low constant at ave, soil temperature, H ₁₉ (abn-m³/mol)	Henry's law constant at ave. soil temperature, H'TE [unitless]	Vapor viscosity at ave. soil tamperature, µ18 (g/cms)	Vadose zone effective diffusion coefficient; D ^{eff} V [cm ² /8]	Diffusion path length, L _d (cm)
9.24E+05	4.155-04	15	10,337	2.07E03	8.625-02	1.796-04	3.506-03	594.6
Convection path length, L _p (cm)	Source vapor conc., C _{kore} (µg/m³)	Crack radius, force (cm)	Average vapor flow rate into bidg., Q _{sol} (cm ³ /s)	Crack effective diffusion coefficient, D ^{crock} [cm ² /s]	Area of orack. A _{creck} [cm ²]	Exponent of equivalent foundation Peolet number, exp(Pe ¹)	Infinite source indoor attenuation coefficient, c. (unitess)	Infinite source bldg. conc., Country (ug/m³)
15	1.195+01	0.10	1.12E+01	3.50E-03	3.84E+02	2.885+54	6.508-05	7.785-04

Unit
rtsk Reference
factor, conc.,
URIF Rfc
(µg/m³)¹ (mg/m³)

NA 9.05-01

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

incremental risk from	Hazard quotient
Vapor	from vapor
intrusion to	intrusion to
indoor air,	indoor air,
carcinogen	noncercinogen
[unitiess]	(unitiess)
l NA	83507

MESSAGE SUMMARY BELOW:

	Soll	Gas Concentration	n Date	DATA EL. SHEET	
Chemical CAS No. (numbers only,	ENTER Soil gas conc. C;	DR	ENTER Soil gas cona, C ₃	DTSC/HERO 12/1/01	
no dashes)	[µg/m³)		(ppmv)	Chemical	-
95476	4,85E+02			o-Xylene	7

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE .	below grade to bottom of enclosed space floor, Le [15 or 200 cm]	Soil gas sampling depth below grade, L _e (cm)	Average soil temperature, T _S (°C)	Vedose zona SCS soil type (used to estimate soil vapor permeability)	OR	User-defined vadose zone soë vepor permeability, k, (om²)
	15	3048	202	LS		

MORE	ENTER Vadose zorie soil dry bulk deutsky, P. ^A (II/cm ³)	ENTER Vadose zone soil total porosity. n* (unitass)	ENTER Vadose zone soil water-filled porosity, e, Y [cm²/cm³]
1	1.45	0.457	0204

MORE .	ENTER	ENTER	ENTER	ENTER
	Averaging time for carcinogens. AT _C (yrs)	Averaging time for noncarcinogens, ATNC (yrs)	Exposure duration ED (yrs)	Exposure frequency (5F (days/yr)
1	70	30	30	350

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D _s [cm ² /s]	Diffusivity in water, D _* [cm ² /s]	Henry's law constant at reference temperature, H (atmm ³ /mol)	Henry's taw constant reference temperature, Ta (°C)	Enthalpy of vaporization at the normal boiling point, ΔH_{cs} (cal/mol)	Normal boiling point, T ₆ (°iQ	Critical temperature, To (9K)	Unit risk factor, URF (ug/m ³) ¹	Reference conc., RIC (mg/m³)	Molecular weight MW (g/mol)
8,706-02	1.005-05	5.20E-03	25	8,681	417.60	630.30	0.05+00	7.06-01	106.17

INTERMEDIATE CALCULATIONS SHEET

Source- building separation, L ₇ (cm)	Vadosa zone soil ainfilled porosity, 6, V [cm ³ /cm ³]	Vadose zone effective total fluid saturation, S _m [cm ³ /cm ³]	Vadose zone soil intrinsic permeability, k (cm ²)	Vadose zone soil relative air permeability, k _m [cm ²]	Vadose zone soil effective vapor permeability, k, [cm ²]	Floor- wall seam perimeter, X _{cree} (cm)	Soil gas conc. (µg/m³)	Bidg. ventilation rate, Objecting (cm ³ /s)
289.8	0.253	0.380	1.656-08	D.717	1.18608	3,844	4.85E+02	5.63E+04
Area of enclosed space below grade, Ag (cm²)	Crack- to-fotal area ratio, 1) (unitess)	Crack depth below grads, Zout (cm)	Enthalpy of vaporization at ave. soil temperature, AH _{vis} (cel/mol)	Henry's law constant at ave. soil temperature; Hhs [atm-m³/mol)	Henrys law constant at ave, soil temperature, His [unidess]	Vapor viscosity at ave, soil tamperature, µrs (g/cms)	Vadose zone effective diffusion coefficient, D ^{ef} v [cm ² /s]	Diffusion path length, L _d (cm)
9,248+05	4.16E-04	15	10,288	3.916-03	1.63E-01	1.795-04	4.295-03	289.8
Convection path length, L _p (cm)	Source vapor cono., Cource (ug/m³)	Crack radius ratios (cm)	Average vapor flow rate into bidg., G _{sol} [cm²/s]	Crack effective diffusion coefficient, D ²⁰⁰² [cm ² /s]	Area of crack, Acrost (cm ²)	Exponent of equivalent foundation Peclet number, exp(Pe ¹) [unitless]	Infinite source indoor attenuation coefficient,	Infinite source bldg. conc., Custop [Jug/m³]
15	4.85E+02	0.10	1.126+01	4.29E-03	3.84E+02	2.868+44	1.09E-04	5.31E-02

Unit risk Reference factor, LIRF conc., AfC [mg/m³] (ug/m) 7.0E-01 NA END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

incremental risk from	Hazard
vapor	from vapor
intrusion to	intrusion by
indoor air,	indoor air.
carcinogen	noncarcinogen
(unitiess)	[unitiess]
(unitiess)	[unitiess]
NA	7.3E-05

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

	Soil (Sas Concentratio	n Data	DATA EN. SHEET
Chemical CAS No. (numbers only,	Soil gas conc. C ₂	DR	ENTER Soil gas conc. C _g	DTSC/HERD 12/1/01
no dashes)	(m) (m)		[ppmv]	Chemical
108678	1.40E+02			1,3,5-Trimethylbenzene

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE	below grade to bottom of enclosed space floor. L+ [15 or 200 cm]	Soil gas sampling depth below gradu, L, (cm)	Average soil temperature, Ts (°C)	Vadose zone SCS soil type (used to estimate soil vapor permeability)	DR	User-defined vadose zone soil vapor permeability, k, [cm²]
	15	609,6	202	LS		

MORE	ENTER Vadose zone soil dry bulk density, Pb ^A (g/cm ³)	ENTER Vadose zone soil total porosity, n" [unitless]	Vadose zone soil waterfilled porosity. 8, (cm³/cm³)
[1.48	0.457	0204

MORE	ENTER Averaging	ENTER Averaging	ENTER	ENTER
	time for carcinogens, AT _C	time for noncarcinogens, AT _{NC}	Exposure duration, ED	Exposure frequency. EF
la	(yrs)	(yrs)	(yrs)	(days/yr)
I	70	30	30	350

END

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CHEMICAL PROPERTIES SHEET

Diffusivity in air, D _s (cm ² /s)	Dimusivity in water, D _w [cm ² /s]	Henry's law constant at reference temperature, H [atm-m ³ /mol]	Henry's law constant reference temperature, Ta (°C)	Enthalpy of vaporization at the normal boiling point.	Normal boiling point, T _S	Crisical temperature. T _C (%)	Unit resk faczor, URF (µg/m³)¹	Reference cond., RfC (mg/m³)	Molecular weight, MW (g/mol)
7.506-02	7,106-08	4.058-04	25	11,360	437.80	639.00	0.06+00	6.05-03	120,00

INTERMEDIATE CALCULATIONS SHEET

Source- building separation, L _T [cm]	Vadose zone soil air-filled porosity, θ_a^V [cm³/cm³]	Vadose zone effective total fluid seturation, Sa (cm³/cm³)	Vadose zone soil intrinsic permeability, k _i (cm ²)	Vadose zone soil relative air permeability, k _m [cm ²]		Vadose zone soil effective vapor permeability, k, [cm ²]		Floor- wall seam perlmeter, X _{cres} (cm)	Soil gas conc. (µg/m³)		Bldg. vemilation rate, Charles (cm²/s)	
594,8	0.253	0,380	1.65508	0,717	T	1.18508	L	3,844	1.40E+02	T	5.63E+04	
Area of enclosed space below grade, As [cm ²]	Crack- to-total area ratio, n	Crack depth below grade, Z _{creck} [cm]	Enthalpy of veporization at ave. soil temperature, ΔH _{cTS} (cal/ mori)	Henrys law constant at ave. soil temperature, His (atmm³/moi)		Henry's law constant at ave, soil temperature, Hrs [unitiess]		Vapor viscosiby at ave. soil temperature, juns [g/cm/a]	Vadose zone effective diffusion coefficient. D ^{eff} v [cm ² /s]		Diffusion path length, L _d [cm]	
9.24E+05	4.166-04	15	14,037	2.75E-04	T	1.14E02	1	179604	3.71E-03	I	594.6	J
Convection path length, L _s (cm)	Source vapor conc., Carra (µg/m³)	Crack radius, rouse (cm)	Average vapor flow rate into bldg., Q _{col} (cm ³ /s)	Crack effective diffusion coefficient, D ^{orack} (cm ² /s)		Area of crack, Amed (cm ²)		Exponent of equivalent foundation Peolet number, exp(Pe') [unidess]	Infinite source Indoor attenuation coefficient, attenuations		Infinites source blog conc., Cons (ug/m²)	
15	1,40E+02	0,10	1.12E+01	3,71E-03	1	3.84E+02	T	2.40E+51	6.786-05	T	9.46E-03]

Unit risk Reference factor, URF conc., RfC (ug/m³) (mg/m³) E.0E-03 NA. END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental	Hazerd
risktrom	quotient
vapor	from vapor
intrusion to	intrusion to
indoor air.	indoor air,
carcinogen	noncarcinogen
[unitless]	(unitless)
NA	1 55.00
NA	1.5E-03

MESSAGE SUMMARY BELOW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

	Soil	Sas Concentratio	n Data	DATA E. HEET
ENTER	ENTER Soil		ENTER Soil	DTSC/HERD 12/1/01
Chemical	gas	DR	gas	
CAS No.	conc.		conc.	
no dashes)	(ug/m ²)		(vmqq)	Chemical
95363	1.85E+03			1.2,4Trimethylbenzene

	ENTER Depth	ENTER	ENTER	ENTER		ENTER
MORE #	below grade to bottom of enclosed space floor. Le (15 or 200 cm)	Soil gas sampling depth below grade. L _a (cm)	Average soil temperature, T _S	Vadose zone SCS soil type [used to estimate soil vapor permeability]	CR	User defined vadose zone soil vapor parmeability, k, (cm²)
	15	609.6	202	LS		

MORE	ENTER Vadose zone soil dry bulk density, Po ^A [g/cm ³]	ENTER Vadose zone soil total porosity, n [unitless]	ENTER Vadose zone soil water-filled porosity, 6,,,,, [cm ² /cm ³]
1	1.48	0.457	0.204

	Averaging time for cardinagens, ATo	ENTER Averaging time for noncarcinogens, ATing	ENTER Expasure duration, ED	ENTER Exposure frequency,
-	(Vrs)	(yrs)	[yrs]	[days/yr]
Г	70	1 30 T	30	350

CHEMICAL PROPERTIES SHEET

Diffusivity in air. D _a (cm ² /s)	Diffusivity In water. D., [cm ² /s]	Henry's law constant at reference temperature, H [atm-m ³ /mol]	Henry's tow constant reference tamperature. T _R (C)	Enthalpy of vaporization at the normal bolling point, ΔH _b (cal/mol)	Normal boding point, T _B	Critical temperature, To (N)	Unit risk factor, URF (ug/m³)¹	Reference conc., RfC (mg/m³)	Moleculer weight, MW [g/mal]
7.50E-02	7.10E0B	4.835-04	25	11,480	442.40	850.DO	D.OE+DD	6.08-03	120.00

INTERMEDIATE CALCULATIONS SHEET

Source- building separation, L _T [cm]	Vadose zone soil air-filled porosity, 0, (cm³/cm³)	Vadose zone effective total fluid saturation, S _m (cm ³ /cm ³)	Vadose zone soil Intrinsic permeability, k (cm²)	Vadose zone soil relative air permeab ility , ^{(k} ra ²)	Vadose zone soil effective vapor permeability, k, (cm ⁸)	Floor- wall seam perimeter, X _{orea} l (cm)	Soil gas conc. (ug/m³)	Bidg, ventilation rate, Guiden (cm³/s)
584.6	0.253	0.380	1.855-08	0.717	1.18508	3,844	1.85E+03	5.63E+04
Area of enclosed space below grade, As (om*)	Crack- to-total area ratio, q (unidess)	Crack depth below grade, Zosai (cm)	Enthalpy of vaporization at ave. soil temperature, \[\Delta H_{kit} \] \[(cal/mol) \]	Henry's law constant at ave, soil temperature, His [atmin a/mol]	Henry's law constant at ave, soil temperature, His [unitless]	Vapor viscosity at ave. soil temperature, us (g/cm-s)	Vadose zone effective diffusion coefficient, D ^{eff} v [cm ² /s]	Diffusion path length, L _d (em)
9.24E+05	4.16E-04	15	14,135	3.135-04	1.30502	1.795-04	3.715-03	594.6
Convection path length, L _{p.} (cm)	Source vapor conc C _{rora}	Crack radius, Possis (cm)	Average vapor flow rate into bldg., G _{scl} [cm ³ /s]	Crack effective diffusion coefficient, D ^{orack} [cm ² /s]	Area of crack, Acada (cm ⁸)	Exponent of equivalent foundation Peclet number, exp[Pe ¹] (unities)	Infinite source indoor attenuation coefficient, α (unidess)	Infinite source bldg, conc., Course [Jug/m ²]
15	1.85E+03	0.10	1.12E+01	3.716-03	3.84E+02	2,54E+51	6.755-05	1.256-01

Unit risk Reference fector, cont., URIF RIC [mg/m³) [mg/m³)

RESULTS SHEET

en 11

INCREMENTAL RISK CALCULATIONS:

Incremental	Hazard
resk from	quotient
vapor	from yapor
Incrusion to	incrusion co
indoor air,	indoor air,
carcinogen	noncarcinogen
(unidess)	[unidess]
NA	2.06-02

MESSAGE SUMMARY BELDW:

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

APPENDIX F GEOPHYSICAL SURVEY LETTER



Mr. Steve Williams Project Manager Earth Tech 100 West Broadway, Suite 240 Long Beach, California, 90802 February 8, 2002

Spectrum Geophysical conducted a geophysical survey of the former UST pit location at the Sears Auto Center, 12121 Hamlin Street in Los Angeles, California. The survey included testing for subsurface structures utilizing the following methods:

- · Shallow-focus terrain conductivity meter
- Ground penetrating radar
- Utility-locating instruments

Results of the geophysical survey indicate the following:

- The vent pipes located on top of the service bays terminate at the former UST pit location. No evidence of existing USTs were identified in the GPR data. Depth of GPR investigation was 5 to 6 feet below ground.
- No evidence to indicating the presence of USTs was found with the shallowfocus terrain conductivity meter or utility-locating instruments.

If there any questions regarding this report please contact Page Jennings at 818-365-9371.

Sincerely,

Dana LeTourneau

President

Dana@spectrum-geophysics.com

PRELIMINARY ENVIRONMENTAL ASSESSMENT REPORT PROPOSED EAST VALLEY MIDDLE SCHOOL NO. 1 HAMLIN STREET AND LAUREL CANYON BOULEVARD LOS ANGELES, CALIFORNIA

PREPARED FOR:



LOS ANGELES UNIFIED SCHOOL DISTRICT ENVIRONMENTAL HEALTH AND SAFETY BRANCH 355 SOUTH GRAND AVENUE, 6TH FLOOR LOS ANGELES, CALIFORNIA 90012

PREPARED BY:

EARTH TECH 100 WEST BROADWAY SUITE 240 LONG BEACH, CALIFORNIA 90802

MARCH 11, 2002

PRELIMINARY ENVIRONMENTAL ASSESSMENT REPORT PROPOSED EAST VALLEY MIDDLE SCHOOL NO. 1 HAMLIN STREET AND LAUREL CANYON BOULEVARD LOS ANGELES, CALIFORNIA

PREPARED FOR:



LOS ANGELES UNIFIED SCHOOL DISTRICT ENVIRONMENTAL HEALTH AND SAFETY BRANCH 355 SOUTH GRAND AVENUE, 6TH FLOOR LOS ANGELES, CALIFORNIA 90012

PREPARED BY:

EARTH TECH 100 WEST BROADWAY SUITE 240 LONG BEACH, CALIFORNIA 90802

MARCH 11, 2002

No. 7064

Exp. 03.03

PREPARED BY

STEVE WILLIAMS

REGISTERED GEOLOGIST NO. 7064

REVIEWED BY:

PHILIP NICOLAY

REGISTERED GEOLOGIST NO. 6632

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ABBREVIATIONS AND ACRONYMS

ASTM American Society for Testing and Materials

AST aboveground storage tank bgs below grade surface

Cal/EPA California Environmental Protection Agency

CARB California Air Resources Board

CERCLIS Comprehensive Environmental Response, Compensation, and Liability Information

System

cm centimeters

cm3/cm3 cubic centimeter per cubic centimeter chemical of potential concern

DTSC Department of Toxic Substances Control
EDR Environmental Data Resources, Inc.
EPA U.S. Environmental Protection Agency
ERNS Emergency Response Notification System

FID Facilities Information Database

FINDS Facility Index System
g/cm3 grams per cubic centimeter
GPR ground-penetrating radar

HEAST Health Effects Assessment Summary Tables
HPLC high-performance liquid chromatography
IRIS Integrated Risk Information System

IT IT Corporation kg kilograms

LADWP Los Angeles Department of Water and Power

LAUSD Los Angeles Unified School District

LUST California Leaking Underground Storage Tank List

MDL method detection limit
mg/kg milligrams per kilogram
mg/L milligrams per liter
MTBE methyl tert-butyl ether
NPL National Priorities List
PCB polychlorinated biphenyl

PCE tetrachloroethene

PEA preliminary endangerment assessment PEC potential environmental concern

PID photo-ionization detector

PPB parts per billion

PRG preliminary remediation goal

RCRIS SQG Resource Conservation and Recovery System

Generators

RfC reference concentration

RfD reference dose

RI/FS remedial investigation/feasibility study

RWQCB California Regional Water Quality Control Board SCAQMD South Coast Air Quality Management District

Sf slope factor

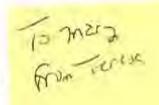
SVOC	semivolatile organic compound
TCE	trichloroethene
TPH	total petroleum hydrocarbons
TSD	treatment, storage, and disposal
URF	unit risk factor
USGS	U.S. Geological Survey
UST	California Underground Storage Tank List
VOC	volatile organic compound
µg/dL	micrograms per deciliter
μg/kg	micrograms per kilogram
μg/L	micrograms per liter
µg/m3	micrograms per cubic meter

LIMITATIONS

The services described in this report were performed by Earth Tech Corporation (Earth Tech) on behalf of the Los Angeles Unified School District (LAUSD). Earth Tech was contracted by the LAUSD to conduct a Preliminary Environmental Assessment (PEA) for the proposed East Valley Middle School No. 1 site. The preparation of this PEA report was performed in accordance with our agreement with the LAUSD. This report is solely for the use and information of the LAUSD, unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations presented in this report apply to conditions existing when the PEA was performed. Earth Tech is not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services.

EXECUTIVE SUMMARY



The proposed East Valley Middle School No. 1 is an L-shaped area of land bounded by Kittridge Street on the north, Hamlin Street on the south, Laurel Canyon Boulevard on the east, and Saint Clair Avenue to the west, within the North Hollywood area of the incorporated city of Los Angeles, California. The site consists of approximately 10 acres of commercially developed land (see Figure 2) with four buildings, paved parking lots and a public access road (Bellingham Avenue).

Single family residences occupy the area northwest of the property. Commercial properties occupy the area north, northeast, east and south of the property. The Valley Plaza Community Center and Park is located west of the site.

Results of the soil gas and soil matrix sampling program, revealed the detection of 13 VOCs at low to trace levels. The highest concentration of VOC detected was PCE at $5.7896~\mu g/L$ at location SG-11 (former UST area).

Analytical results of the soil-matrix sampling program revealed the following:

- All of the 17 Title 22 metals were detected across the site with the exception of Thallium. However, based on a comparison of the site average concentrations of these metals and their respective maximum background concentrations, none of the detected metals were determined to be COPCs.
- Of the 79 samples analyzed for SVOCs, one soil sample (SB-21-0.5), near a former underground hoist) had detectable concentrations of 12 SVOCs. The SVOCs detected are considered to be COPCs.
- Of the 10 soil samples analyzed for pesticides, four samples showed detectable concentrations of one to three separate pesticides. All pesticides detected are considered to be COPCs.
- TPH was detected at low to trace concentrations in one boring (SB-6) at five and nine feet bgs. The concentrations of TPH detected are not considered to be a concern.
- PCBs were not detected at the site.
- The concentration of pH ranged from 4.12 to 5.84.

A total of 30 chemicals were identified as COPCs in soil and soil gas at the site. These COPCs were evaluated in the human health screening evaluation.

Using maximum COPC concentrations detected at the site, a total incremental cancer risk for hypothetical residential exposure to soil through direct contact (including incidental ingestion, dermal contact and inhalation of dust particles) was estimated to be 8E-04. The chemicals that contributed to more than 99.9 percent of the estimated incremental cancer risk were the earcinogenic SVOCs detected in soil sample SB-21-0.5. The lateral extent of SVOC impacted soil seems to be very limited as only one of 77 samples collected at the site contained detectable concentrations of SVOCs.

The total hazard index for hypothetical residential exposure to soil through direct contact (including incidental ingestion, dermal contact and inhalation of dust particles) was estimated to be 2.7E-02. The estimated hazard index for the site is below 1.0, the benchmark level for non-cancer effects.

The total cancer risk and hazard index associated with exposure to VOC-impacted indoor air were calculated to be 1.5E-6 and 0.04, respectively. The cancer risk is slightly above the risk criterion of 1E-6. The total hazard index for this pathway is below the level of regulatory concern (i.e., 1.0).

The use of the maximum detected soil gas concentrations provides a conservative estimate of associated cancer risks and health hazards. Furthermore, assuming that a resident resides at the site 24 hours per day for 30 years also provides a conservative estimate of the chemical exposure.

In order to utilize all soil gas data collected, soil gas data obtained using EPA Method TO-14A and EPA Method 8260 were combined and the 95% upper confidence limit (95% UCL) from the mean was derived for each averaged VOC concentration. The total cancer risk resulting from inhalation of indoor VOCs at their 95% UCL concentrations was 3.9E-7. The total hazard quotient resulting from this exposure was 0.015. Both values are below the cancer risk criterion of 1E-6 and 1.0 for non-cancer adverse health effects.

For all analytes modeled, the risk due to inhalation of outdoor air was approximately three orders of magnitude smaller than the risk due to inhalation of indoor air. The hazard index due to inhalation of outdoor air was more than an order of magnitude smaller than the hazard index due to inhalation of indoor air. The estimated cancer risk due to inhalation of VOCs in outdoor air was 2.2E-9. This value is below

the cancer risk criterion of 1E-6. The estimated total health hazard index due to inhalation of VOCs in outdoor air was 1.2E-3. This value is also below the level of concern of 1.0.

Cumulative potential risks from soil and soil-gas exposure were calculated by summing all pathways. The total cancer risk is 8E-4 at the proposed school site, which exceeds the acceptable criteria of 1E-6. If the SVOC data from SB-21-0.5 were removed, the total site cancer risk would be approximately 1.5E-6, which is slightly above the cancer risk criterion of 1E-6. Note that the modeled risk is based on the maximum detected concentrations in soil and soil-gas samples rather than an estimate of the average concentrations and therefore provides a conservative estimate of health risk. The cumulative site hazard index is 0.068, which is below the target hazard index of 1.0.

Based on the concentrations of SVOCs detected in soil sample SB-21-0.5, additional assessment to determine the distribution and occurrence of elevated SVOCs should be conducted in the form of a supplemental site investigation (SSI). Results of the SSI will be summarized in a SSI Report with recommendations for either remedial action or no further action. Based on the results of this PEA, no further action for the remainder of the site should be required.

1.0 INTRODUCTION

This document presents the Preliminary Environmental Assessment (PEA) for the proposed East Valley Middle School No. 1 site in Los Angeles, California. Earth Tech Inc., (Earth Tech) is submitting this PEA report on behalf of the Los Angeles Unified School District (LAUSD). This PEA was conducted to evaluate possible health impacts to future students and staff at the proposed East Valley Middle School No. 1 site resulting from environmental conditions at the site and surrounding properties.

Earth Tech submitted to the California Environmental Protection Agency (Cal/EPA) Department of Toxic Substances Control (DTSC) a draft PEA Work Plan for the proposed the East Valley Middle School No.1 site for review and comment. Following DTSC's review and comments, Earth Tech prepared and submitted a Draft Final Work Plan (PEA Work Plan) dated December 13, 2001. The DTSC provided approval to the PEA Work Plan in a letter dated December 19, 2001.

The PEA field investigation, laboratory program, and human health screening evaluation were conducted in accordance with the approved PEA Work Plan dated December 13, 2001, with the following exceptions:

- Soil borings SB-19 and SB-20 were relocated. Underground hoists did not exist at the proposed locations but were present in the near vicinity, where borings were not proposed.
- Soil Boring SB-31 was added to investigate former underground hoist. The PEA Work Plan did not have a boring proposed at that location.
- Soil borings SB-32 and SB-33 were added because duplicate numbers (SB-9 and SB-13) were originally shown in the PEA Work Plan.
- Soil boring SB-34 was added adjacent to an elevator shaft to investigate the potential of a release.
- Soil boring SB-6 and soil gas location SG-11 were terminated at nine feet below ground surface (bgs) due to refusal.
- Boring SB-21A was added three feet from boring SB-21 due to refusal at three and one-half feet bgs in boring SB-21.

The proposed East Valley Middle School No. 1 site is located west of Laurel Canyon Boulevard between Hamlin and Kittridge streets in Los Angeles, California (Figure 1).

This PEA report was prepared by Earth Tech using information acquired during review of regulatory records and historical site information, site reconnaissance, and the collection and analysis of environmental samples (including soil, and soil-gas). This PEA report was prepared in accordance with the PEA Guidance Manual (DTSC, 1994, revised 1999), the LAUSD Master Scope of Work, Preliminary Endangerment Assessment (LAUSD, 1999), and the PEA Work Plan (Earth Tech, 2001).

The overall objectives of the PEA include:

- Evaluating historical information for indications of the past use, storage, disposal, or release of hazardous wastes/substances at the site.
- Establishing, through a field sampling and analysis program, the nature of hazardous wastes/substances that could be present in soil, soil vapor, surface water, or groundwater at the site; the associated concentrations; and general extent.
- Estimating the potential threat to public health and/or the environment posed by hazardous constituents at the site using a residential land use scenario.
- Assessing potential impacts/risk from offsite sources in air, soil, soil gas, and groundwater.
- Based on the information provided in the PEA report, either a recommendation for action or no further action will be made.

Based on information developed during the PEA and the conservative human and ecological risk evaluation using the PEA Guidance Manual (DTSC, 1994, revised 1999), the DTSC will make an informed decision about potential risks posed by the site. Possible outcomes of the PEA decision include the requirement for further investigation through the remedial investigation/feasibility study (RI/FS) process if the site is significantly impacted by hazardous substance releases; the need to perform a removal action if localized impacts have occurred due to hazardous substance releases; or issuance of a "no further action" finding if the site is not significantly impacted and risks to human health and the environment are within acceptable levels based on the conservative screening level risk assessment.

2.0 SITE DESCRIPTION

2.1 SITE NAME

The site has been identified by the LAUSD as proposed East Valley Middle School No. 1. Additional

information regarding the site description is presented in the Phase I site assessment (Earth Tech, 2001).

2.2 SITE ADDRESS

The proposed East Valley Middle School No. 1 is an L-shaped area of land bounded by Kittridge Street

on the north, Hamlin Street on the south, Laurel Canyon Boulevard on the east, and Saint Clair Avenue to

the west, within the North Hollywood area of the incorporated City of Los Angeles, California.

The site consists of approximately 10 acres of commercially developed land and roadways (see Figure 2).

The site addresses include 6501 through 6559 Laurel Canyon Boulevard (odd numbered addresses), and

12121 Hamlin Street. The property is generally bounded by Laurel Canyon Boulevard on the east,

Hamlin Street on the south, Saint Clair Avenue on the west and Kittridge Street on the north.

The major traffic arteries in the area are Laurel Canyon Boulevard to the east, Victory Boulevard to the

south, and the 170 (Hollywood) Freeway to the west.

2.3 DESIGNATED CONTACT PERSON

The designated contact person for this project is Mr. Angelo J. Bellomo of the LAUSD Environmental

Health and Safety Branch.

2.4 MAILING ADDRESS

The mailing address designated for this project is:

Los Angeles Unified School District

Office of Environmental Health and Safety 355 South Grand Avenue, 6th Floor

Los Angeles, California 90071

Attn: Mr. Angelo J. Bellomo

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PBA March 2002

2.5 TELEPHONE NUMBER

The telephone number for Mr. Angelo J. Bellomo is (213) 743-5086.

2.6 OTHER SITE NAMES

Other names for the proposed East Valley Middle School No. 1 site include: Valley Plaza, Sears Auto-Center and Sears Garden Center. No other site names have been reported.

2.7 USEPA IDENTIFICATION NUMBER

United States EPA (USEPA) Identification Numbers are assigned to specific addresses and not to a business or operation that occupied the property when the number was assigned. Once a number has been assigned, it will not be removed. If conditions no longer require the number's use, the property owner may petition the USEPA for its deactivation. The property at 12121 Hamlin Street, which houses the Sears Auto Center, has its mailing address at 12121 Victory Boulevard. The USEPA Identification Number for this location is CAD980892277.

2.8 CALSITES DATABASE NUMBER

Based on a review of the regulatory database search report and contacts with regulatory agencies, discussed further below, the site is not identified in the CalSites database.

2.9 ASSESSOR'S PARCEL NUMBER(S) AND MAP

The following parcel numbers were identified in the area of the subject property; 2322-005-044 through 2322-005-061.

2.10 TOWNSHIP, RANGE, SECTION AND MERIDIAN

Based on the USGS 7.5-Minute Topographic Series, Van Nuys Quadrangle Map, the site is located in Section 11, Township 1 North, Range 14 West. The approximate geographic coordinates of the site are 34° 11' North latitude, 118° 24' West longitude.

2.11 SITE ZONING

Information obtained from the City of Los Angeles indicates that the entire proposed school site is zoned as commercial. Section 17213 of the California Education Code and Section 21151.8 of the California Public Resources Code prohibit construction of a school upon a current or former hazardous waste disposal site or solid waste disposal site. Based upon information reviewed for preparation of this PEA, the proposed school site is not situated upon a current or former disposal site.

2.12 SITE MAPS AND PHOTOGRAPHS

A vicinity map depicting the site and surrounding area is included as Figure 1, a site plan showing the approximate locations of current and former buildings located within the proposed school boundaries is included as Figure 2, PEA soil gas sampling locations as well as the property addresses are presented in Figure 3, and a detail map showing soil boring locations is included as Figure 4. Site photographs taken during the field investigation (Earth Tech, 2001) are included in Appendix A.

3.0 BACKGROUND

This section describes the general background of the subject property, including history, former land use, environmental concerns, summary of previous studies, topography, geology, hydrogeology, and climatic conditions. Additional information regarding the site hackground is presented in the Phase I Environmental Site Assessment (Phase I) (Earth Tech, 2001).

3.1 SITE STATUS/HISTORICAL SITE INFORMATION

3.1.1 PROPERTY OWNERSHIP

Records search of the property ownership indicate that the various parcels of the property are owned by the following entities: Valley Plaza LLC a Delaware Limited Liability Company; Sears Roebuck and Company; Valley Plaza I & II; Symonds Gladys; and the Henshaw Family Partnership.

3.1.2 FACILITY OPERATORS

The following is a description of the operating business's facility identified with the address.

Address	Facility Name
6501 Laurel Canyon Boulevard	Kragen Auto Parts
6503 Laurel Canyon Boulevard	Fashion Q (clothing store)
6507 Laurel Canyon Boulevard	Blockbuster Video
6513 Laurel Canyon Boulevard	Bakers (shoe store)
6521 Laurel Canyon Boulevard	99¢ Only Store
6527 Laurel Canyon Boulevard	Plus Size Dress Shop
6529 Laurel Canyon Boulevard	See's Candies
6531 Laurel Canyon Boulevard	Unit A Meeting Hall
6533 Laurel Canyon Boulevard	Cute Kids (clothing store)
6533A Laurel Canyon Boulevard	Coffee Shop
6533 1/2 Laurel Canyon Boulevard	Phils Barber Shop
6535 Laurel Canyon Boulevard	Amusé (clothing store)
6537 Laurel Canyon Boulevard	My Haircut Place
6541 Laurel Canyon Boulevard	Susies Factory Outlet (clothing store)
6541 1/2 Laurel Canyon Boulevard	Don Roberto Jewelry
6543 Laurel Canyon Boulevard	Avenue (clothing store)
6549 Laurel Canyon Boulevard	T-Shirts Factory Outlet
6551 Laurel Canyon Boulevard	Payless Shoe Source
6559 Laurel Canyon Boulevard	El Pantalon (clothing store)
12121 Hamlin Street	Sears Auto Center

The remainder of the site consists of asphalt-paved parking lots and a public right of way (Bellingham Avenue).

3.1.3 SITE HISTORY

The following time line describes the historical use and structures of the property.

Year	Source	Discussion
1902	Topographic Map	The site and all surrounding land is unimproved. Victory Boulevard and portions of Laurel Canyon Boulevard are developed streets.
1928	Aerial Photograph	The subject property appears to be agricultural land. Adjacent parcels are sparsely improved with scattered residential dwellings.
1952	Aerial Photograph	The small building at the southern end of the strip shopping center has been constructed. The eastern auto center building has been constructed, along with a small building located where the western auto center building is currently located. The remainder of the subject property appears to be used for parking. Adjacent properties along Laurel Canyon Boulevard are in the process of being improved with commercial/retail structures.
1950-1951	City Directories	There are no listings in the 6500 block of Laurel Canyon Boulevard or the 12000 block of Hamlin Street.
1952	Topographic Map	The site is indicated on the map, within an area of urban development. No further detail is indicated.
1955	Sanborn Map	The strip shopping center is shown on the east side of the subject property. The Sears Auto Center is shown and labeled as auto repairing, gas and oils. A small store is shown at the northeast corner of Hamlin Street and Bellingham Avenue. The portion of the subject property west of Bellingham Avenue is not shown. The Sears store is shown to the south, a carwash to the southwest, residences to the east, and a market to the north.
1960	Sanborn Map	The subject property appears similar to the 1955 Sanborn map. A bank has been added to the north end of the strip shopping center. The small store at Hamlin Street and

Year	Source	Discussion
		Bellingham Avenue is no longer shown and the Sears Auto Center has expanded with a brake shop at the west side. The surrounding properties appear similar to the 1955 Sanborn map. Stores have been constructed at the southeast corner of Hamlin Street and Bellingham Avenue.
1963	Sanborn Map	The subject property appears similar to the 1960 Sanborn map. The west building of the Sears Auto Center has been constructed. The surrounding properties appear similar to the 1960 Sanborn map. Stores have replaced some of the residences on the east side of Laurel Canyon Boulevard.
1965	Aerial Photograph	The existing buildings are seen on the subject property. The east auto center building is smaller than its current configuration. A building is seen on the northwest corner of Hamlin Street and Bellingham Avenue. The remainder of the subject property is used for parking. Commercial development is seen to the north and south, residences to the northwest, and the park to the west. The properties to the east are mixed commercial and residential.
1966	Sanborn Map	The subject property appears similar to the 1963 Sanborn map. The surrounding properties appear similar to the 1963 Sanborn map.
1966	Topographic Map	The buildings seen in the 1965 aerial photograph are shown and labeled Valley Plaza.
1969	Sanborn Map	The subject property appears similar to the 1966 Sanborn map. The surrounding properties appear similar to the 1966 Sanborn map.
1972	Topographic Map	The buildings seen in the 1965 aerial photograph are shown and labeled Valley Plaza.
1976, 1989, 1994	Aerial Photographs	The buildings on the subject property appear similar to the existing development. An addition has been constructed at the south end of the west auto center building. A building is still located at the

Year	Source	Discussion	
		northwest corner of Hamlin Street and Bellingham Avenue. The development of the surrounding properties is similar to the existing development.	

3.2 SURROUNDING PROPERTY LAND USES

3.2.1 ADJOINING PROPERTIES AND LAND USES

Single family residences occupy the area northwest of the property. Commercial properties occupy the area north, northeast, east and south of the property. The Valley Plaza Community Center and Park is located west of the property, adjacent to the 170 Freeway.

3.2.2 REGULATORY STATUS OF OFFSITE PROPERTIES

Review of selected regulatory databases for documented environmental concerns at the property, or proximity to the property, was conducted by Environmental Data Resources, Inc (EDR) on behalf of Earth Tech. The EDR report is included in Appendix A of the PEA Work Plan. The following is a summary of the EDR report:

- There is one NPL site located within one-half mile east of the property. Due to its distance (½ mile) and direction (cross-gradient), it appears unlikely that this site will negatively impact the proposed school site.
- There are no active CERCLIS sites located within a ½-mile radius of the proposed school site.
- There are no TSDF/SWIS/SWAT sites within ½ mile of the proposed school site.
- There are no CORRACTS sites within one mile of the proposed school site.
- There are no ERNS/CHMIRS incidents located adjacent to the proposed school site.
- There are no RCRA/RCRIS (Large Quantity) Generators located adjacent to the proposed school site.
- There is one RCRA/RCRIS (Small Quantity) Generator located adjacent to the proposed school site (Sears Store). The facility is listed as having no violations.

- There are four CALSITES (HWS) facilities located within a one-mile radius of the proposed school site. The sites appear unlikely to negatively impact the proposed school site due to their distance (1/2 mile and greater).
- One LUST site was identified within ¼ mile north-northeast of the proposed school site. This site has been closed, no evidence reviewed, suggests it would negatively impact the proposed school site.
- There are 5 CORTESE sites identified within a one-mile radius of the proposed school site.
- There is one registered UST site southeast and adjacent to the proposed school site. This site is not included on any release or contamination related databases. This site is not considered to be a recognized environmental condition relative to the subject property.
- No oilfield activity was identified on or adjacent to the proposed school site (Munger Map Book, 1994, Page W-61).

3.3 HAZARDOUS SUBSTANCE/WASTE MANAGEMENT INFORMATION

The following current and/or historic hazardous materials or waste storage facilities were identified in the EDR Regulatory database report, records review, interviews, and/or site reconnaissance performed by Earth Tech (Earth Tech August 2001, December 2001):

- The Sears Auto Center stores new oil in two 200-gallon aboveground storage tanks (ASTs) inside the west building. There are two parts washers that are serviced by the Safety Kleen Company within the shop. Waste oil is stored in 55-gallon drums in the service bays. A 1,000-gallon AST located outside of the west building was formerly used to store waste oil, but is not currently in use. This AST is located within a secondary containment. Used automobile batteries are stored in the service bays and taken off-site by Johnson Controls.
- Nine UST vent pipes were observed on the roof of the Sears Auto Center. A permit was issued in 1951 to Sears, Roebuck and Company for installation of nine USTs at 12137 Hamlin Street. The permit for the USTs was as follows: one 4,000-gallon UST for storage of gasoline, one 8,000-gallon UST for storage of gasoline, six 1,000-gallon USTs for storage of fresh lube oil, and one 1,000-gallon UST for storage of waste oil. In 1971, a permit was issued to Sears Auto Center to abandon one atmospheric tank. The permit did not specify the tank contents, size, or location. In 1988, a permit from the City of Los Angeles Fire Department was issued to Sears Auto Center to abandon seven atmospheric tanks. Documentation accompanying this permit indicates that the seven 1,000-gallon USTs were removed. A note on the site plan attached to the permit indicates that a soil sample was to be taken under the waste oil UST. No documentation of this soil sample was found in the records. Sears Auto Center is also listed as having seven USTs. The USTs listed include one 500-gallon UST for waste oil and six USTs of unspecified size containing unspecified product. The Sears Auto Center is also included on the CA FID UST list, which shows the facility as an inactive UST location. The former USTs at the Sears Auto Center are considered to be a potentials environmental condition.

- Hazardous materials in the strip shopping center tenant spaces were limited to small quantities of janitorial supplies and latex paint.
- The only hazardous wastes currently generated at the property are waste oil, batteries, and waste brake cleaning fluid from the Sears Auto Center. The auto center has only recently resumed performing oil changes and has not yet made arrangements for disposal of the waste oil. The site does not currently generate infectious waste.
- Waste Management removes refuse generated at the site for all the commercial waste.
- The LADWP services the proposed school site for electricity and water, and the Southern California Gas Company for natural gas. One pole-mounted electrical transformer was observed near the southeast corner of the residential area northwest of the subject property. Two transformer vaults were observed on the subject property; one located in the alley, west of the strip shopping center and one located in Hamlin Street, south of the southeast corner of the auto center. All of these transformers are owned by LADWP. No staining or signs of leakage were noted in association with the transformers located on the subject property.
- Photo City (former business) at 6525 Laurel Canyon Boulevard is listed as a small-quantity generator with no violations found in the record. Photo City is listed for the generation of photo-chemicals and photo-processing waste. This facility is no longer a tenant at the subject property. Sears store, at 12121 Victory Boulevard south of the property was also listed as a small-quantity generator with no violations found. The listing on the RCRIS database does not represent a recognized environmental condition to the proposed school site.
- Avenue Plus, a clothing store, at 6543 Laurel Canyon Boulevard is listed for the generation of asbestos-containing waste. The Valley Plaza Shopping Center is listed for the generation of asbestos-containing waste. Sears Auto Center is listed for the generation of alkaline solution without metals; off-specification, aged, or surplus organics; asbestos-containing waste; waste oil and mixed oil; laboratory waste chemicals; unspecified solvent mixture waste; and aqueous solution with less than 10% total organic residues. The listing on the HAZNET database does not represent a recognized environmental condition to the proposed school site.
- The FINDS database is a pointer database, which refers back to the Photo City and Sears Auto Center listings on the RCRIS-SQG database. The FINDS database listing does not represent a recognized environmental condition to the proposed school site.

3.3.1 PREVIOUS INVESTIGATIONS

In addition to the Phase I conducted by Earth Tech, a preliminary Phase I Environmental Site Assessment was conducted for the entire Valley Plaza Shopping Center, which includes the subject property, by California Environmental for J.H. Snyder Company, LLC and is dated July 2000. This assessment noted the existing buildings and a one-story vacant commercial structure located at the northwest corner of Hamlin Street and Bellingham Avenue. This structure was reported to be a former Sears Garden Center/Customer Pick-up facility (note: this building was no longer present during Earth Tech's site

reconnaissance on August 8, 2001). The report states that the Sears Auto Center utilizes and generates small quantities of waste oil, solvents, automobile batteries, and other miscellaneous automotive materials. The J.H. Snyder report indicates that nine soil borings were drilled at the Sears Auto Center in 1994. Soil samples collected were found to have concentrations of perchloroethylene also referred to as tetrachloroethene (PCE) up to 19 parts per billion (ppb). The report does not indicate where the soil borings were located, depth of the samples collected, or if the soil samples were analyzed for other compounds.

4.0 APPARENT PROBLEM

Based on the background information reviewed and the observations noted during the site visits, several potential environmental concerns (PECs) were identified. Similar PECs are grouped together as listed below.

- A portion of the proposed school site has been developed with an automobile service center since the early 1950's. Nine USTs were installed at this site in 1951. There is documentation that at least eight of the nine USTs were removed from the subject property by 1988. No documentation concerning the removal or abandonment of the tanks was found; therefore, the possible existence of USTs in the former UST area and residual hydrocarbons beneath the former USTs is a PEC.
- The automobile service center currently has four clarifiers, which receive water from several areas within the facility before discharging to the sanitary sewer. The potential for the clarifiers to have an unauthorized release is a PEC.
- The automobile service center currently has 17 underground hydraulic lifts. In addition, indications are present that at least six additional hydraulic lifts have been abandoned on the site. The potential for the hydraulic cylinders to leak in the subsurface exists.
- One two-story elevator exists at the automobile service center. The elevator is equipped with a hydraulic cylinder, which extends approximately 15 feet below the bottom of the elevator or approximately 30 feet bgs.
- Staining was observed on the concrete floor adjacent to the downstairs air compressors floor drain.
- A former petroleum pipeline was identified beneath Laurel Canyon Boulevard.
- A storm drain inlet is located in the central parking lot.
- A transformer is present north of the Sears Auto Center.
- Existing waste oil ASTs at the Sears Auto Center.
- A former Sears Garden Center was located on the northwest corner of Hamlin Street and Bellingham Avenue.
- Sampling performed as part of a Preliminary Phase I investigation indicated perchloroethylene (PCE) in soil at the Sears Auto Center (J.H. Snyder, 2000). The report does not indicate where the soil borings were located at Sears Auto Center, depth of the samples collected, or if the soil samples were analyzed for other compounds. Therefore, the potential for soil impacted with PCE exists within the subject property area.

The objective of the PEA is to determine whether any release of hazardous or toxic materials has occurred at the site and, if so, to assess whether these contaminants present a potential health threat to future occupants of the proposed East Valley Middle School No. 1. The PEA sampling performed by Earth Tech was intended to provide sufficient data to evaluate the risk to human health, identify any contamination originating at the site, and potential contamination migrating onto the site from off-site sources.

5.0 ENVIRONMENTAL SETTING

This section discusses the potential exposure pathways based on site-specific environmental characteristics such as the topographic, geologic, and hydrogeologic features of the site and surrounding areas. The conceptual site model for potential pathways is presented in Figure 5 and discussed in the following sections.

5.1 FACTORS RELATED TO SOIL PATHWAYS

The PEA Guidance Manual (DTSC, 1994 second printing 1999) requires that the risk/hazard due to exposure to soil be calculated as part of the PEA process. The exposure routes for soil addressed in this PEA are dermal contact and incidental ingestion of soil by a child and by an adult. As provided for by the PEA Guidance Manual, a residential exposure scenario was used. In the adult, incidental soil ingestion may occur during outdoor work that raises dust, such as construction. Dermal absorption may occur by dust particles adhering to exposed skin. Young children may ingest soil during outdoor activities and dermal absorption may occur in a similar manner as experienced by adults. The PEA Guidance Manual provides guidance on the amount of soil, which will be ingested and absorbed to the skin by both the child and adult daily.

5.1.1 SITE TOPOGRAPHY

The U.S. Geological Survey (USGS) (USGS, 1978) topographic map of the Van Nuys quadrangle indicates that the site has a surface elevation of approximately 700 feet above mean sea level (msl). The surface topography of the subject area is gently sloping to the south at the proposed school site. Surfacewater runoff generally flows primarily toward the south, with lesser amounts of runoff to the east and west, where it is directed to storm drain inlets in the curbs of the surrounding streets. Figure 1 shows the topography within the region of the subject property.

5.1.2 PROXIMITY TO SURFACE WATER BODIES

The nearest surface water feature is the Tujunga Wash, which is located approximately 1000 feet to the west. The Tujunga Wash is an improved concrete lined drainage channel, protected by fencing. Water flow in the channel is episodic, with flow occurring after rainstorms. Due to the limited access and location adjacent to the 710 Freeway, the Tujunga Wash is not considered a pathway.

5.1.3 EVIDENCE OF RELEASES TO THE ENVIRONMENT

Based on review of available subsurface environmental assessment reports and investigations, documented releases of hazardous material in the environment were identified. These included the following:

- As discussed in section 3.3.1, soil samples collected at the Valley Plaza Shopping Center were found to have concentrations of PCE up to 19 parts per billion (ppb).
- During site inspections conducted during the Phase I (Earth Tech, 2001), oil staining was
 observed on concrete surfaces around the air compressor in the basement of the Sears Auto
 Center.

No other evidence of a release was identified.

5.1.4 SITE GEOLOGY AND SOIL TYPES

The proposed school site is located within the Transverse Ranges Geomorphic Province of California. Structurally the site is located in the northwestern block of the Los Angeles basin and is bounded on the north by the San Gabriel and Santa Susanna Mountains, on the east by the Verdugo Mountains, on the west by the San Fernando Basin and on the south by the Santa Monica Mountains. The soils underlying the proposed school site are classified as Quaternary alluvium formed in the Cenozoic Era (P. G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S., 1994).

Based on the California Department of Conservation, California Geologic Survey (formerly called the Division of Mines and Geology), Seismic Hazard Zone Map for the Van Nuys Quadrangle, the subject property lies on the northern margin of a potential liquefaction zone. A potential liquefaction zone is defined as an area where historic occurrence of liquefaction, or local geological, geotechnical and groundwater conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

The site is located approximately three miles southwest of the Verdugo Fault, four miles north of the northern most extent of the Santa Monica Fault Zone (north side of the Santa Monica Mountains) and approximately eight miles southeast of the Northridge Hills fault.

Based on the lithology encountered during the field investigation, fill soils exist to approximately nine feet bgs in the vicinity of the former UST pit area. Below the fill soils the lithology consists of moist,

loose to medium dense sand and silt to the maximum depth drilled of 35 feet bgs. This description is in general agreement with a Geotechnical Investigation Report (Geotechnical Professionals, 2001), where soils consisted of moist, loose to medium dense silty sands to a depth to of 50 feet bgs. Boring logs from the PEA field investigation are included in Appendix B.

5.2 FACTORS RELATED TO WATER PATHWAYS

The PEA Guidance Manual (DTSC, 1994 second printing 1999) requires that incremental risk/hazard due to the groundwater pathway be calculated. The potential release of contaminants in groundwater and subsequent volatilization, transpiration, and upward migration ultimately could impact soil, outdoor air, and indoor air provided that groundwater is near the surface, a release mechanism occurs, and a pathway exists.

The groundwater pathway was not evaluated in this report because soil test results did not show impacted subsurface soils beyond 20 feet bgs, and during the geotechnical investigation, groundwater was not encountered to the total depth of 50 feet bgs.

5.2.1 GROUNDWATER PATHWAY

5.2.1.1 Site Hydrogeologic Setting

The site is located in the eastern portion of the San Fernando Groundwater Basin. Groundwater occurs in three principal water-bearing formations in the San Fernando Groundwater Basin: the Pleistocene Saugus Formation (including upper Pliocene Sunshine Ranch beds), Late Quaternary older alluvium (including Pacoima Formation and terrace deposits), and Holocene Alluvium.

The water-bearing portion of the Saugus Formation formation consists of light-colored, poorly sorted, loosely consolidated conglomerate and coarse sandstone, which were deposited as fluvial and alluvial fan sediments. The water-bearing capacity of the formation is somewhat lower than the older alluvium (terrace deposits).

The older alluvium (terrace deposits) was derived from deposits left by modern streams in earlier cycles of erosion with the source areas little different from the present streams. Lithologically, the materials of the older alluvium and terraces are broadly similar, consisting of brown to grayish, dirty, unsorted, angular to subangular detritus, entirely of local origin. There are numerous depositional breaks, during

which extensive weathering of materials took place, resulting in the forming of horizons of ancient soils. Consolidation is poor, and the deposits are only locally cemented.

The water-bearing character of these deposits is variable, depending on the source area. The site is less than one mile east of the Tujunga Wash of Little Tujunga Creek, which deposited an alluvial cone consisting almost entirely of coarse crystalline debris from the Verdugo Mountains to the north.

Holocene deposits in the area of the site consist of predominately coarse, thick accumulations of boulder, gravel, and sand in coalescing alluvial fans, becoming finer grained farther from the canyon mouths.

The upper Los Angeles River Area Watermaster report, dated May 1999 was consulted for groundwater data in the vicinity of the subject property. Based on data from the Watermaster report groundwater flows in an east-southeasterly direction. The LADWP and adjoining water purveyors actively manage the San Fernando Groundwater Basin resource. Groundwater is extracted from the eastern part of the basin and utilized for potable supply. The closest individual private well producer to the subject property is the Allied Signal Aerospace well, located approximately one mile to the northeast, upgradient, of the site. The nearest municipal well field to the subject property is the North Hollywood well field, managed by LADWP located approximately 1/2 mile north of the subject site. On the order of 20,000 acre-feet of groundwater is produced annually from the North Hollywood Field by the Department of Water and Power.

Depth to first groundwater is estimated to be greater than 50 feet bgs based on data from the Geotechnical Investigation performed on behalf of the LAUSD. During the geotechnical investigation, groundwater was not encountered to the total depth of 50 feet bgs. The geotechnical report indicates that historical data has shown groundwater in the vicinity of the subject property to be as shallow as 25 feet bgs. Groundwater gradient is estimated to be to the south.

Depth to water information from wells 3811E and 3800D was obtained form the Los Angeles County Public Works Department, Hydrologic Records Division. Depth to water in well 3811E, located 0.5 miles east of the site was measured on March 24, 2001 at 214.9 feet bgs. Depth to water in well 3800D, located 0.35 miles north of the site was measured on April 28, 2001 at 237.3 feet bgs.

The site is located to the west of the North Hollywood NPL site. The North Hollywood NPL site is an area of intensive investigation and remediation to address chlorinated solvent impacted groundwater in

the eastern portion of the San Fernando Valley. The site is several thousand feet west of the western boundary of the North Hollywood NPL site. Appendix C contains the trichloroethene (TCE) and tetrachloroethene (PCE) contamination map for shallow groundwater in the San Fernando Valley Basin.

5.2.1.2 Impacted Aquifers From Site Releases

Based on the reported depth to groundwater and the results of previous and current reports and investigations, no evidence has been found indicating a release or threatened release from the site to groundwater. Therefore, the aquifers are not known or suspected to be impacted from activities at the site.

5.3 FACTORS RELATED TO AIR PATHWAYS

The PEA Guidance Manual (DTSC, 1994 second printing 1999) requires that incremental risk/hazard due to the air pathway be calculated. Volatilized constituents and non-volatile constituents bound to dust particles are the two exposure mediums comprising the air pathway. The potential release of volatile organic compounds (VOCs) in soil gas could impact outdoor air and indoor air at the future school site. Therefore, soil gas measurements were performed, and the potential impact of inhalation of volatized constituents was evaluated using the DTSC's latest soil gas screening version of the Johnson and Ettinger model. Inhalation of outdoor air particulates (i.e., dust) potentially bound to non-volatile constituents was evaluated using the non-VOC inhalation algorithms provided in the PEA Guidance Manual

There is no documentation of a release of hazardous substance to the atmosphere and no known air emissions at the site. However, as discussed in Section 6, detected concentrations of VOCs detected in soil gas are limited to trace to low concentrations in a few samples. Therefore the potential for releases of hazardous substances from the site to the atmosphere is considered to be minimal.

6.0 SAMPLING ACTIVITIES AND RESULTS

The field sampling investigation consisted of three phases: a geophysical survey, a soil gas sampling investigation, and a soil sampling investigation. Sampling locations are depicted in Figures 3 and 4.

6.1 GEOPHYSICAL SURVEY/SITE CLEARANCE

Prior to drilling activities, a geophysical survey was conducted by Spectrum Geophysics, Incorporated (Spectrum). The purpose of the geophysical survey was look for subsurface structures (USTs, clarifiers, septic systems, pipelines, utilities, etc.) and to clear the proposed soil gas and soil boring locations. A combination of ground penetrating radar (GPR), magnetometer, and electromagnetic induction (EM) was employed during the survey.

To investigate the former UST area a specific geophysical survey was performed at the location of the former USTs. The former USTs and surrounding area was investigated for buried tanks. Results of the geophysical survey indicted that the vent lines terminated at the former UST pit area and there were no indications that any USTs remain in place. The geophysical survey summary report is included in Appendix F. Results of the geophysical survey were obtained prior to implementation of the field program to allow for possible modifications and adjustments based on the data received. No anomalies were reported in the former UST area and no significant modifications to the locations of soil or soil gas locations were necessary.

Additionally, prior to the commencement of soil and soil gas drilling activities, Underground Service Alert (USA) was notified of intent to conduct subsurface investigations at least 48 hours prior to the initiation of intrusive field tasks. All proposed locations of subsurface investigation were clearly marked with white paint as required by USA. USA contacted all utility owners of record within the site vicinity and notified them of the intent to conduct subsurface investigations in the proximity to buried utilities. All utility owners of record, or their designated agents, were expected to clearly mark the position of their utilities on the ground surface through out the area designated for investigation.

6.2 SOIL GAS SAMPLING AND ANALYSIS

6.2.1 SAMPLING LOCATIONS AND RATIONALE

Sampling for soil gas was conducted at 21 locations (SG-1 through SG-21). The sampling locations were placed in and around the Sears Auto Center and in the asphalt-paved parking lots immediately east and west of the Valley Plaza shopping center. At each location, soil gas samples were collected at depths of 10 and 20 feet bgs, except location SG-11 (in the former tank pit), where refusal was encountered at nine feet bgs (three attempts were made in a five-foot diameter area, with refusal encountered at nine feet in all locations).

The sampling strategy described in the following sections is based on a biased and random sampling strategy. The biased samples were located near or within areas identified to pose a PEC and the random samples were located to provide spatial coverage throughout the site. The soil gas sampling locations are shown in Figure 3.

Each soil gas sample was analyzed in an onsite mobile laboratory by a Centrum Analytical Laboratories, Inc. (Centrum) of Signal Hill, California, for VOCs following EPA Method 8260. The mobile laboratory operated in accordance with the LARWQCB Guidelines, Interim Guidance for Active Soil Gas Investigation, dated February 25, 1997.

Duplicate soil gas samples were collected for both on-site and offsite analysis. A total of four duplicate soil samples were collected in the same manner as the field samples at randomly selected sampling locations. A total of eight soil gas samples were collected in Summa Canisters for off-site confirmation analysis. Samples collected for off-site analysis were analyzed by Calscience Environmental Laboratories (Calscience), a State Department of Health Services (DHS) Environmental Laboratory Accreditation Program (ELAP) certified fixed laboratory for VOCs using EPA method TO-14A. In addition, methane was analyzed at the fixed laboratory on four samples using EPA Method SCAQMD Method 25.1.

6.2.2 SAMPLE COLLECTION PROCEDURES

Soil gas sampling probe installation was conducted by Environmental Support Technologies, Inc. (EST) of Laguna Hills, California and soil gas sampling was conducted by Centrum. A description of the sample collection procedures is provided below.

<u>Probe Installation</u>: Stainless-steel probes and expendable tips were driven into the ground using either a percussion hammer or a hydraulic ram. The probe rod was advanced to the desired depth (10 and 20 feet bgs) where a section of NylaflowTM tubing with a threaded tip was inserted through the rod to the bottom of the borehole and screwed to the sampling port. The probe was then removed from the borehole, leaving the NylaflowTM tubing with a threaded tip in the borehole. The bottom six inches of the tubing had been pierced in several locations to allow for the free flow of soil gas from the formation to the surface, where samples were then taken.

Once the NylaflowTM tubing was in place, clean sand was poured around the perforated section of tubing to allow for diffusion of soil vapors. The remaining annulus was filled with hydrated bentonite/cement slurry to three inches below grade.

<u>Purge Testing:</u> Purge testing was conducted at the beginning of the soil gas investigation to evaluate the appropriate purge volume to use during the investigation, per LARWQCB protocol. It was determined that three purge volumes would be removed prior to sampling.

Sample Collection: Soil gas samples were collected at each location using a system constructed of stainless steel, glass, NylaflowTM tubing, and TeflonTM components. A calibrated flow meter and vacuum gage was connected to the NylaflowTM tubing to measure the vacuum integrity of the soil gas sampling system prior to sample collection. Soil gas was purged using a peristaltic pump at approximately 100 milliliters per minute. Once the required volume of air was removed from each soil gas point a soil gas sample was collected. For analysis in the field, each soil gas sample was collected using a glass syringe fitted with a disposable needle and MininertTM gas-tight valve. The soil gas samples were immediately transferred to the mobile lab for direct injection into a gas chromatograph for analysis of VOCs, as described in Section 6.1.1 above.

To test for leakage of ambient air intrusion, tracer gas (hexane) testing was conducted at a minimum of 10% of the soil gas locations. The tracer gas test was conducted by wrapping a hexane-coated rag around the soil gas probe at the ground surface. If hexane was detected in the soil gas sample analyzed by the mobile laboratory, additional measures were taken to seal the soil gas sample point and another soil gas sample was collected. Hexane was detected at one location (Sample SG-18-10) in the Sears Auto Center western service building. It is believed that the hexane detection resulted from inadequate ventilation in the service bay causing the sampling container to become affected when the operator walked into the service bay near the sampling point. The service bay doors were opened allowing more ventilation and

more bentonite was placed in the annulus around the sampling point and the location retested for hexane and re-sampled (Sample SG18-10R). No hexane was observed during the second sampling event.

Eight soil gas samples were collected for VOC analysis at the fixed laboratory (SG-4-10, SG-4-20, SG-10-10 and SG-10-20 SG-11-9, SG-14-20, SG-15-10, and SG-15-20). Samples SG-4-10, SG-4-20, SG-10-10 and SG-10-20 were also analyzed for methane. These samples were collected in Summa canisters following purging by attaching the NylaflowTM tubing directly to the canisters using an appropriate fitting and opening the valve of the canister, which was under negative pressure. The samples were submitted to Calscience for analysis of VOCs and methane as described in Section 6.1.1 above.

Upon completion of the sampling, a machine screw was inserted in to the end of the tubing, the tubing folded back into the borehole, and the borehole was filled with concrete to grade.

6.2.3 SAMPLE HANDLING PROCEDURES

As noted above, the soil gas samples collected in a syringe by Centrum were immediately transferred to the mobile lab for direct injection into a gas chromatograph for analysis of VOCs.

To identify and manage the Summa canisters collected in the field, a sample label was affixed to each canister. Each sample label included the following information: Project number; Site name; Sample identification number; Sampler's initials; and, Date and time of collection.

Following collection and labeling, samples were delivered to Calscience for analysis. COC records were used to document sample collection and shipment to laboratory for analysis.

6.2.4 SOIL GAS ANALYTICAL PROCEDURES

Onsite analytical services for the soil gas survey were provided by Centrum. Centrum's mobile laboratory facilities have undergone the LARWQCB WIP approval process for soil gas surveys. EPA Method TO-14A and SCAQMD Method 25.1 analyses were provided by Calscience. Calscience was instructed to report estimated values between the method detection limit and reporting limit and "J"-flag each estimated value.

6.2.5 SOIL GAS ANALYTICAL RESULTS

The following sections summarize the results of the soil gas testing program. A summary of the analytical results of the soil gas samples is included in Tables 1 and 2. The laboratory reports and chain-of-custody documentation are included in Appendix D.

The following tables within this section present only those compounds detected by their respective analysis. If other compounds exist within a particular analyte list and were not listed in the table, then they were not detected.

6.2.5.1 VOC Analysis Using EPA Method 8260B

Only one VOC was detected, PCE at a maximum concentration of 1.5 micrograms per liter (Mg/L), in the 48 soil gas samples (including duplicates and purge volume tests) analyzed in the mobile laboratory using EPA Method 8260B.

6.2.5.2 VOC Analysis Using EPA Method TO-14A

Eight soil gas samples were collected in Summa canisters for analysis at a fixed-base laboratory. VOCs were detected in all eight samples analyzed by EPA Method TO-14A. For consistency with the mobile laboratory analysis results, the EPA Method TO-14A results [(ppbv/v)] were converted to units of μg/L. The following table summarizes the minimum and maximum concentrations of detected VOCs. No other VOCs were detected.

VOCs	Number of Detections	Minimum Concentration (µg/L)	Maximum Concentration (µg/L)
Dichlorodifluoromethane	7	0.0046	0.0754
Trichlorofluoromethane	4	0.0039	0.1713
1,1,1-Trichloroethane	5	0.0049	0.0078
Benzene	4	0.0023	0.0062
Toluene	8	0.0146	0.0996
Trichloroethene	2	0.0076	0.0207
Tetrachloroethene	8	0.0296	5.7896
Ethylbenzene	8	0.0119	0.2957
p/m-Xylene	8	0.0662	1.1473
Styrene	1	0.0042	0.0042
o-Xylene	8	0.0278	0.4854
1,3,5-Trimethylbenzene	7	0.0055	0.1399
1,2,4-Trimethylbenzene	8	0.0130	1.8485

6.2.5.3 Methane Analyses

Methane, ranging from 1.0 to 1.1 ppmv, was detected in 3 of the 4 soil gas samples analyzed at the fixed-base laboratory using SCAQMD Method 25.1. The detection limit was 1 ppmv.

6.3 SOIL SAMPLING AND ANALYSIS

6.3.1 SOIL SAMPLING LOCATIONS AND RATIONALE

Soil sampling was conducted at 34 onsite locations (SB-1 through SB-34). A total of 127 soil samples were collected and 98 samples were analyzed as described below. Archived samples were sent to the laboratory and held pending results of the analyzed shallower samples. The sampling locations are shown in Figure 4.

The sampling strategy described in the following sections is a biased sampling strategy. The biased samples were located near or within areas identified to pose a PEC.

6.3.2 SAMPLE COLLECTION PROCEDURES

Subsurface soil samples were collected in a two-incb diameter, push-probe core sampler. The push-probe system is driven by a hydraulic hammer. Discrete soil samples were collected using a 24-inch long, two-inch diameter split-spoon sampler. Upon reaching the desired depth, the drive tip was removed from the rods, a split-spoon sampler attached and the sampler advanced 24-inches into the soil to collect the sample. Samples were collected in 6-inch long, 1.5-inch diameter stainless-steel sleeves. Selected sleeves were then sealed with TeflonTM squares and polyurethane caps, immediately placed in a chilled container pending delivery to the laboratory. The remaining soil was used for lithologic descriptions and headspace readings with a PID.

Soil samples collected in the basement of the Sears Auto Center at soil boring SB-29 were collected using a hand auger and drive sampler. Subsurface soil samples were collected with a drive sampler following use of a 2.5-inch diameter hand auger to reach the desired sampling depth. Once the desired sample depth was reached, the hand auger was removed from the borehole and a sample collected using a manually driven core sampler lined with a 1.5-inch diameter stainless-steel sample sleeve. The core sampler was driven approximately 6 inches into the base of the hand-augured boring with a slide hammer. Upon retrieval, soil samples were removed from the sampler, sealed with TeflonTM squares and polyurethane caps, immediately placed in a chilled container pending delivery to the laboratory.

Chain-of-Custody documentation accompanied the samples during all phases of the field investigation and delivery to the laboratory.

6.3.2.1 Soil Description

During drilling operations, boring logs were completed for each soil boring. Each log recorded the following sampling information: boring number and location; sample identification numbers; date and time; sample depth; lithologic description in accordance with the Unified Soil Classification System (USCS); description of any visible evidence of soil contamination (i.e., odor or staining), and PID readings. Boring logs are provided in Appendix B.

A Photovac 2020IS photo-ionization detector (PID) was used for both field screening and health and safety monitoring during soil sampling activities. PID headspace data were used as an immediate indicator of volatile organic vapors in subsurface materials.

The PID was calibrated to display concentration in units equivalent to parts per million (ppm). A span gas containing hexane at 100 ppm in air was used to set the sensitivity. The instrument was calibrated at a minimum of once per day.

6.3.2.2 Decontamination

All equipment that came into contact with potentially contaminated soil was decontaminated to assure the quality of samples collected. Disposable equipment intended for one-time use was not decontaminated, but packaged for appropriate disposal. Decontamination occurred prior to and after each use of a piece of equipment. All drilling and sampling devices used were decontaminated in a pre-designated area using the following procedures;

- Non-phosphate detergent and tap water wash, using a brush;
- Tap-water rinse, using a brush; and
- Final tap-water rinse, using a brush.
- Air drying

6.3.2.3 Collection of Field Equipment Blank Samples

Field equipment blank samples were prepared for each day of sample collection. The field equipment blank samples were collected by pouring laboratory-provided, organic-free water over decontaminated drilling equipment, such as the split-spoon sampler. The water was collected in laboratory-provided water sampling containers. The containers were handled in the same manner as other samples (i.e., placed in a cooler with ice and identified on the COC) and delivered to Calscience for analysis with other samples collected the same day.

6.3.3 SAMPLE HANDLING PROCEDURES

Sample containers consisted of new, clean stainless-steel sleeves and laboratory-provided water sample containers for equipment blank samples. To identify and manage samples obtained in the field, a sample label was affixed to each sample container. The sample labels included the following information: Project number; Site name; Boring number; Sample identification number; Sampler's initials, and; Date and time of collection.

Following collection and labeling, samples were immediately placed in a sample cooler for temporary storage. The following protocol was followed for sample packaging:

- Sample containers were placed in clear, plastic, leak-resistant bags prior to placement in the ice chest.
- Ice was placed in leak resistant plastic bags and included in the coolers to keep samples at a chilled temperature during transport to the analytical laboratory. When ice was used, the drain plug of the cooler was secured with duct tape to prevent melting ice from leaking out of the cooler.

6.3.4 SOIL ANALYTICAL PROCEDURES

Offsite analytical services were provided by Calscience. The laboratory was instructed to report estimated values between the method detection limit (MDL) and reporting limit and "J"-flag each estimated value.

A total of 98 soil samples were analyzed at Calscience for one or more of the following:

- Total Petroleum Hydrocarbons (TPH) following EPA Method 8015M,
- Semi-volatile organic compounds (SVOC) following EPA Method 8270C,
- Polychlorinated biphenyls (PCBs) following EPA Method 8082,
- California Code of Regulations (CCR) Title 22 Metals following EPA Method 6000/7000,
- Pesticides following EPA 8081, and

- pH according to EPA Method 9045C.
- Three (3) water samples (field equipment blanks) were analyzed for SVOCs using EPA Method 8270C.

In addition, four soil samples were collected between 1 and 5 feet bgs and analyzed for physical parameters including moisture (ASTM D 2216); porosity (American Petroleum Institute [API] Method RP 40); bulk density (ASTM D 2937); and total organic carbon content (Walkley&Black Method).

Field samples were collected by Earth Tech in accordance with the DTSC-approved field sampling plan (FSP) prepared as part of the PEA work plan (Earth Tech, December 2001) with the following exceptions:

- There was refusal at SB-21, at 3.5 feet bgs. Only the 0.5 foot bgs sample (SB-21-0.5) was collected at that location. Boring SB-21A was drilled 3 feet northwest of SB-21, where the 7, 10, and 12 feet bgs samples were taken.
- There was refusal at SG-11 and SB-6, at 9 feet bgs. Three additional attempts made in an approximate 5 foot area, all of which encountered refusal at 9 feet bgs. Refusal was at equal depths, suggesting a planar feature at this depth. Two soil samples were recovered at this location SB-6-5 and SB-6-9 and two soil gas samples were collected, SG-11-9 and SG-11-9D.
- Deionized water, not high-performance liquid chromatography (HPLC) solvent-free water, was used to collect equipment rinsate samples by Earth Tech for organic analyses.
- Deionized water was not available on January 23, and February 1, 2002. Consequently, equipment rinsate samples were not collected on those days.

6.3.5 SOIL ANALYTICAL RESULTS

A summary of soil analytical results is provided in Tables 3 through 9. The laboratory reports and chainof-custody documentation is included in Appendix D.

The following tables within this section present only those compounds detected by their respective analysis. If other compounds exist within a particular analyte list and were not listed in the table, then they were not detected.

6.3.5.1 Metals

A total of 82 soil samples (including duplicates) were analyzed for metals using EPA Methods 6010B and 7471A. Each of the Title 22 metals was detected in soil at the site. The following table identifies the range of concentrations found in the soil samples collected.

Metals	Detections	Concentration (mg/kg)	Concentration (mg/kg
Antimony	25	0.207J	1.56
Arsenic	33	0.133J	1.75
Barium	78	30.9	315
Beryllium	78	0.06191	0.583
Cadmium	77	0.0191J	0.941
Chromium (Total)	78	2.13	45.6
Cobalt	78	2.12	14
Copper	78	2.72	51.4
Lead	78	0.828	39.3
Mercury	68	0.0130J	0.245
Molybdenum	50	0.0209J	1.58
Nickel	78	2.07	17.9
Selenium	12	0.229J	1.64
Silver	3	0.0305J	0.111J
Thallium	0		-
Vanadium	78	6.6	64.6
Zinc	78	10.8	202

Background soil samples were not collected at the site. Analytical results from soil samples collected at nearby Francis Polytechnic High School (approximately 2 miles north of the site), were used as background soil sample data for metals. Table 10 presents the background metals results.

6.3.5.2 SVOCs by EPA Method 8270C

A total of 79 soil samples were analyzed for SVOCs. Of this data set twelve separate SVOCs were detected in one sample. Sample SB-21-0.5 was reanalyzed to confirm the concentration (SB-21-0.5R) and then a composite sample (SB-21-0.5H) was prepared from sample SB-21-0.5 and analyzed again. All three samples had detectable concentrations of SVOCs. The specific compounds and range of concentrations detected are as follows:

SVOCs	Number of Detections	Minimum Concentration (Mg/Kg)	Maximum Concentration (Mg/Kg)
Phenanthrene	3	0.42	1,6
Anthracene	3	0.13J	0.54
Fluoranthene	3	3.3	14
Pyrene	3	3.4	14

Benzo (a) Anthracene	3	3.0	13
Chrysene	3	2.9	13
Benzo (k) Fluoranthene	3	2.6	11
Benzo (b) Fluoranthene	3	2.8	12
Benzo (a) Pyrene	3	2.7	12
Indeno (1,2,3-c,d) Pyrene	3	1.2	4.7
Dibenz (a,h) Anthracene	3	0.42	1.6
Benzo (g,h,I) Perylene	3	1.0	4.2

6.3.5.3 Pesticides by EPA Method 8081A

A total of 10 samples were analyzed for pesticides. Of this data set three separate pesticides were detected (including primary and duplicates). The specific compounds and range of concentrations detected are as follow:

Pesticides	Number of Detections	Minimum Concentration (μg /kg)	Maximum Concentration (µg /kg)
4,4'-DDE	2	2.1	3.4
4,4'-DDD	1	3.1	3.1
4,4'-DDT	4	2.9	19

6.3.5.4 TPHs by Modified EPA Method 8015

TPH, ranging from 0.81 to 370 mg/kg (total carbon range C7 through C36), was detected in 2 of the 25 soil samples analyzed for TPH. TPH was not detected below the range of C19 in any of the samples.

6.3.5.5 PCBs by EPA Method 8082

PCBs were not detected in any of the 16 samples analyzed for PCBs.

6.3.5.6 pH by EPA Method 9045C

pH was detected at 4.12 and 5.84 in the two samples analyzed for pH.

6.3.5.7 Soil Physical Properties

Analyses including moisture content, bulk and grain density, effective and air-filled porosity, TOC, permeability and hydraulic conductivity were conducted for use in the Human Health Screening Evaluation (Section 7). The results of the soil physical properties testing are presented in Appendix E.

7.0 HUMAN HEALTH SCREENING EVALUATION

A health risk screening was conducted in accordance with the PEA Guidance Manual (DTSC, 1994 second printing 1999) procedures for human health evaluation. As stated by the DTSC, the goal of the screening process is to provide risk managers with an estimate of the potential chronic health hazards that could arise due to exposure to chemicals at the site. Because of the simplified nature of the exposure assumptions incorporated into the PEA procedure, the results are not absolute estimates of the risks or hazards at a site, but rather are health-conservative estimates. As a result, the PEA procedure tends to overestimate potential health hazards and cancer risks rather than underestimate them. Consequently, if the PEA results suggest that cancer risks and non-carcinogenic health hazards are below levels of concern, no further risk assessment or investigation is generally warranted. The following sections discuss the potential risks to humans via exposure to chemicals of potential concern (COPCs) in site soil and air at the proposed East Valley Middle School No. 1. The results of the human health screening evaluation are presented in Tables 11 through 26.

The results of this health risk assessment estimated a site cancer risk of 8.0E-4 and a site hazard index of 6.8E-2. The site hazard index is below the commonly used hazard index limit of 1.0. The estimated risk of 8.0E-4 was due solely to the concentrations of semi-volatile organic compounds (SVOCs) that were found in one soil boring (SB-21). Assuming that exposure to the SVOCs in the area confined to SB-21 can be mitigated such that the cancer risk is negligible, the resultant site cancer risk would result entirely from the potential inhalation of volatile organic compounds (VOCs) in indoor air. This resultant site cancer risk is 1.5E-6. This risk value is approximately equivalent to the cancer risk level of 1E-6.

7.1 EXPOSURE PATHWAYS AND MEDIA OF CONCERN

The PEA investigation analytical results collected by Earth Tech indicated that the COPCs and media of concern are SVOCs and pesticides in soil, and organic compounds in soil vapor. As indicated in the conceptual site model (Figure 5), the primary sources for the COPCs have not been positively identified, but former underground storage tanks (USTs) and possibly waste oil clarifiers used on-site could potentially be a source of VOCs in soil vapor. As discussed in Section 5.0, potential exposure routes include ingestion, inhalation, and dermal contact.

As discussed in Section 5, the groundwater pathway was judged to be incomplete, and therefore not evaluated as a potential exposure pathway.

7.1.1 POTENTIAL EXPOSURE RECEPTOR POPULATIONS

Because the PEA is a conservative assessment of potential exposure and risks, residents are evaluated, as the receptor population of concern. Risk values incorporate exposure factors for both adults and child populations. This population is assumed to be living on the site 24 hours a day for 24 years as adults and 24 hours a day for 6 years as children.

At the proposed school site, the actual receptor populations are students on-site during the school day, and teachers and other support staff at the school. These populations are anticipated to be at the school for a much shorter frequency and duration of exposure thereby limiting the amount of time exposed to site contaminants.

7.2 CHEMICALS OF POTENTIAL CONCERN AND EXPOSURE POINT CONCENTRATIONS

The methodologies used by Earth Tech to determine the COPCs are described in the following sections.

7.2.1 CHEMICALS OF POTENTIAL CONCERN FOR SOIL PATHWAYS

Earth Tech identified two soil exposure pathways that could affect residential receptors at the proposed school site: dermal contact and oral ingestion. Organic compound COPCs were identified as any organic chemicals detected at least once in soil samples. For health risk screening purposes, maximum concentrations for each chemical were selected from soil samples collected in the depth interval from ground surface to 10 feet (depths at which contact could occur). Soil sample analytical results are summarized in Appendix D. Based on the above selection criteria, a total of 17 chemicals were identified – three pesticide residues and 14 SVOCs.

Background soil samples for metals analysis were not collected at the site. Instead, metal concentrations reported in site soils were compared to background soil metals data from the Francis Polytechnical School site. This school site is located approximately 2 miles north of the site. Soils at the Francis Polytechnical School site are similar to soils at the proposed East Valley School No. 1 site for the following reasons:

- Both sites have shallow soils deposited from the Tujunga Wash alluvial fan/flood plain.
- The source of the alluvial material is the same.
- Both sites are within similar residential and commercial settings.

Therefore, metals data from the Francis Polytechnical School site are considered to be representative of background conditions within the area occupied by the proposed East Valley School No.1 site.

Earth Tech performed an evaluation of background metals in soil in accordance with the PEA Guidance Manual (DTSC, 1994 second printing 1999). Table-11 presents the maximum, and average background concentrations; and the maximum, average, and 95 percent upper confidence limit on the arithmetic mean (95% UCL) concentrations for samples collected from the proposed school site. Measured metal concentrations in soil samples from the proposed school site were considered to be within background levels if either the maximum or the average detected on-site concentrations were less than the maximum background soil concentration. Using the data provided in Table 11, all metal concentrations detected at the site were deemed to be within background concentrations. Therefore no metal COPCs were identified.

In accordance with the PEA Guidance Manual (DTSC, 1994 second printing 1999), lead should be evaluated in a PEA regardless of whether its concentrations are within background levels. However, the maximum lead concentration detected at the site (39.3 mg/kg) is significantly lower than the DTSC soil lead screening value of 255 mg/kg. Therefore, health risks posed by lead in soil at the site were not evaluated using the LeadSpread model as part of this PEA.

7.2.2 CHEMICALS OF POTENTIAL CONCERN FOR THE AIR PATHWAY

Cancer risks and non-carcinogenic health hazards for the inhalation pathway are based on either exposure to volatile emissions for VOCs or exposure to fugitive dust emissions for SVOCs and pesticides. As discussed for the soil pathway in Section 7.2.1, the COPCs selected to assess the inhalation of fugitive dust emissions were all of the SVOCs and pesticides detected at the site. In accordance with the PEA Guidance Manual (DTSC, 1994 second printing 1999), calculation of risk/hazard using either volatilization or fugitive dust adequately describes exposure to any given chemical; it is not necessary to do both. For the assessment of VOCs in breathing air, all 13 organic chemicals detected in soil-gas samples were modeled as COPCs transported from the subsurface into indoor air. The maximum detected soil gas concentrations were used as the exposure point concentrations. Maximum detected soil gas concentrations are summarized in Table 15. A complete summary of soil gas analytical results is presented in Appendix D.

7.3 TOXICITY VALUES

The toxicity assessment characterizes the relationship between the magnitude of exposure to a COPC and the nature and magnitude of adverse health effects that may result from such exposure. For purposes of calculating exposure criteria to be used in risk assessments, adverse health effects are classified into two broad categories — non-carcinogens and carcinogens. Toxicity values/exposure criteria are generally developed based on the threshold approach for non-carcinogenic effects and the non-threshold approach for carcinogenic effects. Toxicity values may be based on epidemiological studies, short-term human studies, subchronic or chronic animal data.

In this assessment, chronic toxicity criteria were selected (in order of preference) from the following sources: (1) Cal/EPA Cancer Potency Factors, (2) U.S. EPA's Integrated Risk Information System (IRIS) and U.S. EPA Health Effects Assessment Summary Tables (HEAST), as referenced in the U.S. EPA Region IX Preliminary Remedial Goals table.

7.3.1 CARCINOGENIC EFFECTS

Certain chemicals are regulated as carcinogens based on the likelihood that exposure may cause cancer in humans. Numerical estimates of cancer potency for these chemicals are presented as cancer slope factors (CSFs). The CSF defines the cancer risk due to constant lifetime exposure to one unit of a carcinogen (units of risk per mg/kg-day). CSFs are derived by calculating the 95%UCL on the slope of the linearized portion of the dose-response curve using the multistage cancer model on the study data. Use of the 95%UCL of the slope means that there is only a 5% chance that the probability of a response could be greater than the estimated value for the experimental data used. This is a conservative approach and may overestimate the actual risk given that the actual risk is expected to be between zero and the calculated value. Carcinogenic slope factors assume no threshold for effect, i.e. all exposures to a chemical are assumed to be associated with some risk. Table 12 and Table 13 present the CSFs used in this assessment and the sources from which they were obtained. Preference was given first to the use of CSFs listed in the Cal/EPA Cancer Potency database. If CSFs were unavailable from Cal/EPA, then they were obtained from the federal EPA's IRIS database, and if unavailable from this source, they were obtained from the federal EPA's HEAST database as referenced in the USEPA Region IX Preliminary Remedial Goals table.

7.3.2 NON-CARCINOGENIC EFFECTS

For the purpose of assessing risk associated with non-carcinogenic effects, the USEPA has adopted a science policy position that protective mechanisms such as repair, detoxification, and compensation must be overcome before an adverse health effect is manifested. Therefore, a range of exposures exists from zero to some finite value (a threshold) that can be tolerated by the organism without appreciable risk of adverse effects occurring.

Non-carcinogenic effects were evaluated using reference doses (RfDs) developed by the USEPA. The RfD is a health-based criterion based on the assumption that thresholds exist for non-carcinogenic toxic effects. In general, the RfD is an estimate (with uncertainty) of a daily exposure to the human population that is likely to be without appreciable risk of chronic effects during a lifetime of exposure. RfDs are expressed as acceptable daily doses in milligrams of compound per kilogram of body weight per day (mg/kg-day). Most RfDs are based on oral exposure data. Table 12 and Table 13 present the RfDs and RfCs used in this assessment and the sources from which they were obtained. For inhalation RfDs and RfCs, preference was given first to the use of RfC values listed by Cal/EPA in their Chronic Relative Exposure Levels Database. Using these RfC values, RfDs were calculated by multiplying the RfC value by (20 cu m/[70 kg * 1,000 ug/mg]). RfC values for 1,1,1-trichloroethane and tetrachloroethene were unavailable from the Chronic Relative Exposure Levels Database, but were available in DTSC's VLOOKUP table supplied with their Johnson and Ettinger Soil Screen model. Therefore, the RfD values for these two compounds were calculated from the RfC values supplied in the VLOOKUP table. Other RfC or inhalation RfD values that were unavailable from the above Cal/EPA sources were obtained from USEPA's IRIS database, or if unavailable, from the USEPA's HEAST database, as referenced in the USEPA's Region IX Preliminary Remediation Goals table.

Dermal absorption fraction values for organic chemicals in soil were taken from Table 2 of the PEA Guidance Manual (DTSC, 1994 second printing 1999).

7.4 SOIL GAS TO INDOOR AIR TRANSPORT MODELING

The PEA procedures do not provide a method for evaluating soil-gas results. For this PEA analysis, Earth Tech modeled VOC transport from the subsurface to indoor air using the USEPA (2001) spreadsheet program for the Johnson and Ettinger vapor intrusion model as modified by DTSC/HERD in December

2001. DTSC entitled this program the "SG Screen" (soil gas screen) Version 1.0. Indoor air concentrations were modeled by Earth Tech using the maximum detected soil-gas concentrations.

The concentration of a chemical in indoor air is a function of the concentration of the chemical in the soil gas, physical/chemical properties of the chemical in the soil, attenuation factors, and the characteristics of the building. The SG Screen model uses default assumptions that pertain to the building characteristics, such as its size and air exchange rate. Physical/chemical properties of the VOCs that were not provided in the "VLOOKUP" table accompanying the model were obtained or calculated from chemical data provided on either the USEPA Region 9 Preliminary Remediation Goals website (www.epa.gov/Region 9/waste/sfund/prg/s4) or the National Institute of Standards and Technology (NIST) website (http://webbook.nist.gov/chemistry/name-scr.html). The chemicals for which physical chemistry values were supplied were: dichlorodifluoromethane; trichlorofluoromethane; 1,3,5-trimethylbenzene; and 1,2,4-trimethylbenzene.

Soil properties needed for input into the model are soil dry bulk density, total porosity and water-filled porosity. Earth Tech collected and tested three soil samples from the site to obtain site-specific data for these properties. Test results are presented in Table 8. The remaining model properties are based on the described soil type or model default values. As determined using the soil boring logs, the average soil type at the site was comprised of 73.5% sand and 25.5% silt (Appendix B). According to DTSC's Soil Selection Chart for J&E Indoor Air Modeling, these results are most consistent with a "Loamy Sand" (LS) soil type. Therefore, the "LS" soil type was used for all Johnson & Ettinger modeling. Table 14 summarizes the general parameters input into the model or added to the VLOOKUP table in the model.

Using the "LS" soil type, the model estimated the soil vapor permeability. The bulk density was determined to be 1,46 grams per cubic centimeter (g/cm3). The measured average total porosity is 0.457, which is within the sandy loam range. The average measured water content was 20.4 percent soil moisture, which is approximately 0,204 cubic centimeter per cubic centimeter (cm3/cm3) water filled porosity.

The EPA Johnson and Ettinger model is based on a residential scenario. The model default building was used (i.e., an enclosed space with a slab floor that is 15 centimeters [cm] thick). The model default values for space height (466 cm or 8 feet), floor-wall seam crack width (0.1 cm), and indoor air exchange rate (11.2 cu cm per sec) were used. The depth to the top of contamination was assumed to be the depth at

which each soil gas sample was collected. These depths varied between 9-20 ft bgs, as shown by the last two digits of the respective soil gas sample number (column 3 in Table 15).

Two sets of soil gas data were collected at the site. One set was analyzed using EPA Method 8260 analysis. PCE was the only VOC detected using this method (max 1500 µg/cu m). The second set was analyzed using EPA Method TO-14A. Eight soil gas samples were collected and analyzed using the TO-14A Method, and 13 VOCs were detected (max. PCE was 5,789 µg/cu m). Analytical results are presented in Appendix D. Because the TO-14A method is more sensitive, higher concentrations of PCE and more analytes were detected using this method, and the 8260 Method only detected PCE, maximum detected concentrations from the TO-14A results were used for Johnson & Ettinger soil gas modeling (Table 15).

The results of the Johnson and Ettinger model using the maximum concentration of each chemical in soil gas evaluated for indoor air are based on default input parameters and the site-specific input parameters (porosity, bulk density, water-filled porosity, estimated depth to contamination, organic carbon content, and soil type). In general, using the default values will result in higher indoor air concentrations and, thus, higher incremental risks. In addition, the site-specific parameters, which are moderate to highly sensitive model variables, have the following effect on the Earth Tech model results:

- The calculated water-filled porosity based on site-specific data is considered approximately average at 0.259 cm3/cm3. The model default value is 0.30 cm3/cm3. The lower the value, the greater the effect on indoor air concentrations.
- For modeling purposes, the depth to the top of soil contamination ranged from 9-20 feet bgs based on the sample depth at which the maximum VOC concentrations were detected. The shallower the depth, the greater the effect on indoor air.
- The average measured total porosity is 0.457, which is within the range for sandy loam. The model default value is 0.43. A higher value increases indoor air concentrations.
- Average soil bulk density is 1.46 g/cm3. A higher value decreases the effect on indoor air; however, soil bulk density has low sensitivity in the model.
- Based on boring logs, the soil was evaluated on a conservative basis as a sandy loam by Earth Tech.

For a complete discussion of the model assumptions and parameters, refer to the Johnson and Ettinger model (EPA, 1997). The results of the modeling are provided in Appendix E. Table 15 summarizes the

organic chemicals modeled, the chemical abstracts number for each chemical, its maximum concentration, and the sample containing the maximum concentration.

7.5 SOIL GAS TO OUTDOOR AIR TRANSPORT MODELING

Soil gas can migrate to outdoor air as well as to indoor air. The outdoor air pathway is a complete path and risks/hazards have been evaluated. The DTSC's PEA Guidance Manual (DTSC, 1994 second printing 1999) provides equations for estimating the emission rate and dispersion of subsurface VOCs to outdoor air. These equations were taken from an EPA Superfund guidance document, which has been revised since the PEA Guidance Manual (DTSC, 1994 second printing 1999) was published. The soil gas concentration was converted to an estimated soil VOC concentration using the following equation:

$$CT = CG \left[\theta_W + (n - \theta_W)KH + (Kocfoc) \right] / (\rho_0 KH)$$

Where:

Ст total soil concentration (ug/kg)

CG soil gas concentration (ug/L)

θ_w soil water content by volume (dimensionless)

n total soil porosity (dimensionless)

KH Henry's Law Constant (dimensionless)

 ρ_b dry bulk soil density (g/cu cm)

Koe organic carbon partition coefficient

foc soil organic carbon content (dimensionless)

This equation was provided by the California Regional Water Quality Control Board-Los Angeles office in their Interim Guidance for Remediation of VOC Impacted Sites (January 1995). It is based on a partitioning model and relies on the fundamental assumption of chemical equilibrium between phases, and requires site-specific soil parameters. Table 15 shows the soil parameters and soil VOC

concentrations calculated using the above equation. Using the PEA screening equations for VOCs in ambient air, each calculated soil VOC concentration was used to calculate the health risk and health hazard values resulting from VOC exposure by inhalation of outdoor air. The same COPCs used for indoor air modeling were also used to evaluate the outdoor air pathway.

7.6 RISK CHARACTERIZATION SUMMARY

The objective of this section is to integrate information developed in the toxicity assessment and the exposure assessment sections into a complete evaluation of the current and future health risks associated with COPCs detected at the site. This risk assessment evaluates the nature and degree of health risks to hypothetical residential receptors at the site. Health hazard and risk estimates are derived for each COPC as well as for the combined effects that may result from exposure to all COPCs.

7.6.1 HUMAN CARCINOGENIC EFFECTS

Carcinogenic risk from both soil and soil-gas is estimated as the incremental probability of an individual developing cancer over a lifetime as a result of exposure to one or more of the COPCs. The non-cancer health hazard (expressed as the hazard quotient) is estimated by comparing the estimated exposure levels with the exposure level at which no adverse health effects are expected to occur as a result of chronic exposure (i.e., reference dose). Human health risk and hazard quotient evaluations were performed in accordance with the PEA Guidance Manual (DTSC, 1994 second printing 1999). Individual chemical cancer risks were estimated for soil using the following PEA equations:

For dermal contact and oral ingestion:

Where: SF_p = Oral slope factor

 C_s = Concentration in soil

ABS = Skin absorption factor

For inhalation of outdoor air containing dust or VOCs:

Risk, oil = SFi * C, * 0.149

Where: SFi = Inhalation slope factor

Ca = Concentration in air (for dust C_a=C_s,* 5x 10⁻⁸; for

VOCs, $C_a = [(emission rate)/99]$ where the emission rate was calculated using the equation in Figure 2.6 of

the PEA Guidance Manual

The incremental cancer risk estimated to result from accidental ingestion of soil and dermal contact is presented in Table 16. The incremental cancer risk estimated to result from inhalation of outdoor air containing dust particles impacted by site-related chemicals is presented in Table 17. The incremental cancer risk estimated to result from inhalation of outdoor air containing site-related VOCs is presented in Table 23.

A total estimated carcinogenic risk is determined by summing all of the individual cancer risks. The health risk results are compared against DTSC's screening level risk value of one in one million

(1E-06) and EPA's acceptable risk range of 1E-06 to one in ten thousand (1E-04). If the total estimated risk is below 1E-06, the carcinogenic health risk to individuals under the given exposure conditions is deemed acceptable. If the estimated risk exceeds 1E-06, carcinogenic health risk to individuals under the given exposure conditions, the risk requires risk managers to balance risks with other criteria to assess the need for mitigation.

7.6.2 HUMAN NON-CARCINOGENIC EFFECTS

USEPA's policy regarding non-carcinogenic chemicals differs from its policy for carcinogens (USEPA, 1989). With respect to non-carcinogens, it has been postulated that for systemic toxicity effects to occur, physiological, homeostatic, compensating, and adaptive mechanisms existing in humans must first be rendered inactive prior to any manifestation of a particular toxic response. USEPA's theory for non-carcinogens is that the toxic response has a "threshold" concentration above which toxic effects may occur.

The USEPA has established reference doses for several of the non-carcinogenic COPCs, which represent the dose of the chemical not expected to result in adverse health effects, even over a lifetime of exposure. Individual chemical non-carcinogen hazard quotients for soil were estimated using the following equations:

For dermal contact and oral ingestion:

Hazard_{soil} =
$$(C_9/RfD_0 * 1.28x10^{-5}) + (C_1/RfD_0 * 1.28x10^{-4} * ABS)$$

Where: C_s = Concentration in soil

RfDo = Oral reference dose ABS = Skin absorption factor

For inhalation of outdoor air containing dust or VOCs:

Where: C_u = Concentration in air

RfD_i = Inhalation reference dose

A hazard index was calculated as the sum of all hazard quotients. If the non-carcinogenic hazard index is less than 1.0, the non-carcinogenic health hazard to individuals under the given exposure conditions is deemed acceptable.

The hazard index estimated to result from accidental ingestion of soil and dermal contact is presented in Table 18. The hazard quotient estimated to result from inhalation of outdoor air containing dust particles impacted by site-related chemicals is presented in Table 19. The hazard quotient estimated to result from inhalation of outdoor air containing VOCs is presented in Table 24.

7.6.3 SOIL RISK CHARACTERIZATION

The total incremental cancer risk for hypothetical residential exposure to soil through direct contact (including incidental ingestion, dermal contact and inhalation of dust particles) was estimated to be 8E-04 (Table 20). The chemicals that contributed to more than 99.9 percent of the estimated incremental cancer risk were the carcinogenic SVOCs detected in soil sample SB-21-0.5. The lateral extent of SVOC impacted soil seems to be very limited as only one of 77 samples collected at the site contained detectable concentrations of SVOCs. In addition, factors, such as the presence of asphalt or buildings at the

proposed school (which reduce the potential for soil contact) or the likely removal of shallow soil during the demolition and construction phase of the project, are not considered when calculating health risk.

The estimated hazard index for hypothetical onsite receptors is presented in Table 20. The total hazard index for hypothetical residential exposure to site-related chemicals was estimated to be

2.7E-02. The estimated hazard index for the site is estimated to be below 1.0, the benchmark level for non-cancer effects.

7.6.4 SOIL-GAS RISK CHARACTERIZATION

To estimate health risks to individuals from exposure to indoor air, Earth Tech calculated the cancer risks and hazard quotients potentially resulting from exposure to organic compounds detected in soil gas. The organic chemicals listed in Table 15 were modeled using the Johnson & Ettinger soil screening program at the maximum concentrations detected in soil-gas samples. The Johnson & Ettinger model is a mathematical screening-level model that incorporates both convective and diffusive mechanisms for estimating the transport of contaminant vapors emanating from either subsurface soils or groundwater into indoor spaces located directly above or in close proximity to the source of contamination.

The total cancer risk and hazard index associated with exposure to affected indoor air were calculated to be 1.5E-6 (Table 21) and 0.04 (Table 22), respectively. The total hazard index for this pathway is below the level of regulatory concern (i.e., 1.0). The cancer risk is considered acceptable because it is approximately equal to the risk criterion of 1E-6. Also note that the use of the maximum detected soil gas concentrations provides a conservative estimate of associated cancer risks and health hazards. Furthermore, assuming that a resident resides at the site 24 hours per day for 30 years also provides a conservative estimate of the chemical exposure. Johnson & Ettinger model outputs are presented in Appendix E.

In order to utilize all soil gas data obtained, and to estimate health risks due to inhalation of VOCs using a more realistic exposure point concentration, soil gas data obtained using EPA Method TO-14A and EPA Method 8260 were combined and the 95% upper confidence limit (95% UCL) from the mean was derived for each averaged VOC concentration (Table 26). Non-detect results were replaced with one-half the detection limit for the respective VOC. The 95% UCL values were used as exposure point concentrations and were input into the Johnson and Ettinger Soil Screen modeling program to estimate health risks

resulting from inhalation of VOCs in indoor air. The model output results are also presented in Table 26. The total cancer risk resulting from inhalation of indoor VOCs at their 95% UCL concentrations was 3.9E-7. The total hazard quotient resulting from this exposure was 0.015. Both values are below the regulatory level of 1E-6 for cancer and 1.0 for non-cancer adverse health effects. Hence, the results support the conclusion that the risk of experiencing additional cancer cases or non-carcinogenic adverse health effects due to exposure to VOCs inhaled from indoor air are negligible.

In addition to the risks from soil gas to indoor air, the effect of soil gas to outdoor air was also calculated. The cancer risks and health hazards due to inhalation of VOCs in outdoor air were calculated using equations from the PEA Guidance Manual as described in Sections 8.6.1 and 8.6.2 and calculated VOC concentrations in soil. The VOC concentrations in soil were derived using soil gas VOC concentrations as described in Section 7.4.

For all analytes modeled, the risk due to inhalation of outdoor air was approximately an order of magnitude smaller than the risk due to inhalation of indoor air. The hazard due to inhalation of outdoor air is also approximately an order of magnitude smaller than the hazards due to inhalation of indoor air. These results are summarized in Table 23 and Table 24.

Table 23 shows that the estimated cancer risk due to inhalation of VOCs in outdoor air was 2.2E-9. This value is below the de minimus level of concern of 1E-6. Table 24 shows the estimated health hazard indices due to inhalation of VOCs in outdoor air was 1.2E-3. This value is also below the de minimus level of concern of 1.0. Therefore, the health hazards and cancer risks associated with inhalation of VOCs in outdoor appeared to be negligible.

7.6.5 CUMULATIVE RISK AND HAZARD

Cumulative potential risks from soil and soil-gas exposure were calculated by summing all pathways (Table 25). The total cancer risk is 8E-4 at the proposed school site, which exceeds the de minimis acceptable criteria of 1E-6. As explained in Section 7.6.3, this value resulted primarily from the concentration of SVOCs in one shallow soil sample. Without this result, the total site cancer risk would be approximately 1.5E-6, which is equivalent to the lowest benchmark limit of 1E-6. Note that the modeled risk is based on the maximum detected concentrations in soil and soil-gas samples rather than an estimate of the average concentrations and therefore provides a conservative estimate of health risk.

The cumulative site hazard index (HI) is 0.068, which is below the target HI of 1.0. Therefore, the likelihood that one would experience non-carcinogenic adverse health effects due to exposure to on-site chemicals is negligible.

7.7 UNCERTAINTY ANALYSIS

As stated in the PEA Guidance Manual, the purpose of the human health screening evaluation is not to predict individual health risks but to provide risk managers with an estimate of potential chronic health hazards from chemicals at the site. As a result, the estimated risk values involve uncertainties that reflect the modeled COPC concentrations and the assumptions made for model input variables such as exposure duration, intake rates, calculated exposure concentrations in indoor and outdoor air, soil type and associated site-specific physical parameters. If information was incomplete, conservative values were selected for input into the calculations to estimate cancer risks and non-carcinogenic health hazards. For these reasons, results of a PEA typically overestimate risk/hazards. Actual risks and hazards are likely to be much lower, depending on the actual receptor exposures and land uses. Hence, estimated health risks in this document are expected to be protective of human health.

7.8 UNCERTAINTIES ASSOCIATED WITH COPCS

It was assumed that all detected pesticides, SVOCs and VOCs were COPCs because they were likely derived from human activities. Hence, their natural background concentrations are assumed to be nil. However, SVOCs and VOCs may be present in site media as a result of non-site related urban activities. The maximum detected concentration of each analyte in soil and soil gas was assumed to be representative of concentrations throughout the site. A more accurate representative concentration would be the average concentration, or the 95% upper confidence limit (UCL) on the mean. Use of the highest concentration is thus a conservative assumption that results in an overestimation of associated health risks.

The equation in Section 7.5 that was used to convert soil gas VOC concentrations to soil VOC concentrations derives a ratio of the volume within soil that soil gas can occupy and multiplies this ratio by the soil gas VOC concentration to derive the soil VOC concentration. This equation assumes that within the soil matrix, VOCs bound to soil particles, VOCs in the vapor phase and VOCs dissolved in soil water are in equilibrium. A number of field research reports were conducted to evaluate the validity of the model, and results have been mixed. Hence, it is unclear whether this calculation leads to a more or

less conservative estimate of soil VOC concentrations. Risk estimates due to inhalation of outdoor air containing VOCs is thought to be conservative because of the assumed extended exposure duration as discussed in Section 7.7.3 below.

7.8.1 UNCERTAINTIES INVOLVING TOXICITY FACTORS

As discussed in Sections 8.6.1 and 8.6.2, cancer slope factors and non-carcinogenic reference doses are derived from toxicity experiments using laboratory animals. Extrapolation of toxicity factors derived from animal tests for use in deriving health risk estimates for humans involve several assumptions that make the resulting risk estimates conservative. These assumptions generally involve dividing the toxicity value derived from animal studies by factors of 10 to account for each of the following differences in: (a) toxic response between test animals and humans, (b) susceptibility between individuals within the human population, (c) using non-chronic data to estimate chronic toxicity responses, and (d) use of the Lowest Observable Adverse Effect Level (LOAEL) instead of a No Observable Adverse Effect Level (NOAEL) to estimate the threshold for a reference dose. In addition, modification factors are also divided into toxicity values to account for differences in metabolism and/or the mechanism of toxicity of a xenobiotic between test animals and humans. Therefore, the cancer slope factors and non-carcinogenic reference doses used to derive human health risk estimates are themselves derived using conservative assumptions.

7.8.2 UNCERTAINTIES INVOLVING ESTIMATED EXPOSURE CONCENTRATIONS

In addition to using the highest detected concentrations as representative exposure concentrations, additional exposure assumptions make the risk estimates derived in this document conservative. For example, use of the residential exposure scenario assumes that a child is raised on-site for the first six years of his life, and then lives on-site as an "adult" for the next 24 years of his life. This is a conservative assumption because it assumes an exposure period of 24 hours per day, 365 days per year for a total of 30 years. A more realistic exposure for the proposed school site would be 6-8 hours per day for "adult" students (i.e., seven years of age and older) for a total of three years, and eight hours per day for 191 days per year for 30 years for teachers and administrators.

To estimate risks due to soil ingestion exposures, algorithms in the PEA Guidance Manual assume that a child will ingest 0.2 grams soil per day. Analogous assumptions are made to estimate dermal exposures. These assumptions are conservative because the site will be landscaped, and little, if any, exposure to soil should occur. In addition, most of the time that a receptor spends on-site will be indoors. Hence, it is

anticipated that the assumptions used to estimate chemical exposures in this risk assessment are conservative.

The Johnson & Ettinger soil screening program was used to estimate VOC concentrations in indoor air. This model assumes that VOCs diffuse upwards from subsurface soils and enter buildings through cracks in the foundation due to a slight negative pressure indoors that is created by outside air movement. The model assumes default values for a hypothetical building perimeter, area of the foundation below grade, and the foundation crack area. It uses soil properties and chemical properties of each contaminant to estimate the vapor influx rate into the hypothetical building. It is unclear whether such assumptions result in conservatively high or low health risk estimates. The best way to evaluate the conservative nature of the model is to compare modeling results with actual field measurements. This model also assumes a 350 day per year for 30 year exposure duration. As discussed above, this is a conservative assumption that leads to higher risk estimates.

7.8.3 UNCERTAINTIES ASSOCIATED WITH THE CUMULATIVE SITE RISK ESTIMATE

The cumulative site cancer risk of 8.0E-4 was due solely to hypothetical exposures to SVOCs (Table 25). As discussed in Section 7.6.3, estimated SVOC exposure point concentrations were based on test results from a single soil sample, SB-21-0.5. Hence, the SVOC concentrations used for deriving risk estimates were not representative of overall site conditions. Step-out borings installed around SB-21-0.5 revealed much lower SVOC concentrations. Therefore, site health risks estimated based on SVOC exposures are overly conservative.

Without the risk contributed by the SVOCs, the overall site risk is approximately 1.5E-6. This value was derived based on estimated exposures to VOCs in indoor air. As discussed above, the exposure duration and toxicity value assumptions used to derive this risk estimate are conservative. This risk value overestimates the actual site health risk. Because the risk value of 1.5E-6 is approximately equal to the regulatory benchmark of 1E-6 for school sites, and is a conservative estimate, it appears that the incremental cancer risk due to inhalation of VOCs at the site is insignificant.

8.0 ECOLOGICAL SCREENING EVALUATION

8.1 SITE CHARACTERIZATION

The Proposed East Valley School Middle School #1 site is located within a completely developed and urbanized area in the City of Los Angeles. The site consists entirely of commercial buildings (two) buildings associated with a strip mall and (two) building associated with an auto service center. The remainder of the property is asphalt-paved parking lots (three), an asphalt-paved street (Bellingham Avenue), and perimeter sidewalks. Immediately northwest of the property is a residential area, to the north, south, and east are commercial buildings and to the west are the Valley Plaza Community Center and Park.

BIOLOGICAL CHARACTERIZATION

Native wildlife does not exist within the limits of the project area. Valley Plaza Community Center and Park located adjacent to the property to the west, provides active and passive recreational uses. Urban-adapted wildlife species utilize the park. During bird migratory periods or dispersal movements, individuals of sensitive bird species may park as transitory birds. The park was constructed in approximately 1965; at that time most of the native organism were replaced by those typical of highly developed urban areas. Consequently there are few resources for migratory birds within the project area.

Small populations of urban adapted amphibian and reptile species and small animals may be present in the park and nearby residential areas, especially where gardens and landscape groundcover, such as ivy, are maintained. None of the animals, reptile or amphibian species, which may be present in the park are known to be threatened or endangered. As for the subject site, due to the highly developed state, the likelihood of such species to occur is very low.

8.2 ECOLOGICAL PATHWAY ASSESSMENT

The subject property is completely developed and paved. The property does not support any vegetation or provide native wildlife or habitat. Therefore, there does not appear to a significant soil pathway of exposure to ecologically sensitive species, and subsequently, no quantitative ecological assessment was conducted.

8.3 ECOLOGICAL SCREENING EVALUATION SUMMARY

The site is located within a highly developed area. Although the Valley Plaza Community Center and Park is located adjacent to the property on the west, no natural habitats are known to exist within the park, therefore there does not appear to a significant pathway of exposure to ecologically sensitive species.

9.0 COMMUNITY PROFILE

9.1 PEA NOTIFICATION LETTER

In accordance with AB 2664 and the PEA Work Plan, a PEA Notification Letter was drafted under the direction and guidance of LAUSD. The purpose of the PEA Notification letter was to inform the surrounding community of the PEA investigation. The letter was reviewed and approved by the LAUSD, prior to distribution. In addition, a Key Contacts List was developed including federal, state, and local elected officials and LAUSD and DTSC representatives.

10.0 DATA VALIDATION AND EVALUATION

The investigation was conducted in accordance with the requirements of the Guidance and the specifications of the PEA Work Plan (Earth Tech 2001). The following describes the findings of the data validation process.

10.1 FIELD SAMPLING QUALITY CONTROL

Quality control samples collected in the field for soil gas samples were duplicates, analyzed at both the field laboratory and a fixed-base laboratory. The results of the duplicate measurements were compared and found generally within the range of variability for soil and soil gas analysis.

10.2 LABORATORY ANALYSIS QUALITY CONTROL

Samples collected were submitted to a State of California Environmental Laboratory Accreditation Program (ELAP) certified laboratory for analyses presented in the PEA Work Plan. Laboratory reports were subjected to validation for compliance with the method and laboratory procedures. Approximately 10 percent of the samples were subjected to Level D review by an independent, third party validation subcontractor. Review included evaluation of:

- Data completeness
- Compliance with method specified holding times
- Laboratory blank results
- Method specified quality control analysis (matrix spikes, laboratory duplicates, laboratory control standards, surrogates (as required))
- Compound identification and quantitation (initial calibration, continuing calibration)

All of the laboratory measurements were usable for the purpose intended although some data was qualified as estimated. The findings of the validation process were incorporated into the recommendations and conclusions of the PEA. The following issues were noted during the process.

Arsenic and zinc were detected in select method blanks. Results of associated samples would be qualified as non-detect or estimated. However, none of the data qualification would result in a change to the findings and recommendations of this report. Molybdenum was detected in a method blank. Results of associated samples would be qualified as non-detect or estimated. However, none of the data qualification would result in a change to the findings and recommendations of this report.

Other anomalies were also identified but were determined not to have an effect on the conclusions or recommendation of the investigation.

11.0 HSP IMPLEMENTATION

Earth Tech prepared a site-specific Health and Safety Plan (HSP) pursuant to Health and Safety Code 1910.120. The HSP is provided in the PEA Work Plan as Appendix C. Specifically, the HSP addresses the following:

- Identification and description of potentially hazardous substances that may be encountered during field investigation activities
- Description of PPE and clothing for the site activities
- Identification of measures that may be implemented in the event of an emergency

Earth Tech field personnel reviewed the HSP prior to commencing field work. Prior to the initiation of field activities each day, a site safety briefing was conducted to identify potential physical and chemical hazards and outline measures to be taken in the event of an emergency. All onsite were required to sign the safety briefing form.

During field activities, all personnel within the exclusion zone wore appropriate Level D PPE. The worker's breathing zone was continually monitored for organic vapors using a PID as required by the HSP. All breathing zone PID measurements were non-detectable and below action levels. Thus, all fieldwork was performed under Level D conditions.

Potential hazards to public health and safety were minimal because nearly all of the site investigation was conducted on private property that is currently developed with operating businesses. No incidents or emergency actions occurred during the field program.

12.0 VARIANCES

This section addresses field variances to the approved PEA Work Plan (Earth Tech, 2001) that resulted from field conditions and additional site information that was obtained during the execution of the field investigation activities. Typically, field variances included moving the location of soil matrix borings, adding soil borings or modifying the proposed sample depths. An on-site representative from the DTSC was consulted regarding the change in the sampling program. Field variances are described below.

Soil Gas

Refusal was encountered at soil gas sample location SG-11 at a depth of 9 feet bgs. This sample location is shared by soil matrix sampling location SB-6. Several attempts were made to achieve the desired sampling depth, but all failed due to a planar concrete feature, which could not be breached. For this reason, soil gas samples at this location were taken at 9 feet bgs only, instead of 10 and 20 feet bgs.

Refusal was encountered at soil gas sample location SG-18 at a depth of 18 feet bgs. This borehole was drilled with a portable GeoprobeTM direct-push sampler due to its limited access location within the western service bay. At 18 bgs, refusal was encountered due to dense sands and low torque of the sampling rig. For this reason, soil gas samples at this location were collected at 10 and 18 feet bgs, instead of 10 and 20 feet bgs.

No other revisions were made to the proposed soil gas sampling plan.

Soil Samples

Refusal was encountered at 9 feet bgs at soil matrix sampling location SB-6. Because of the refusal described above, soil samples were collected at 5 and 9 feet bgs, instead of at 5, 10, and 15 feet bgs.

Soil matrix sampling locations SB-19 and SB-20 were moved within the western service bay from their original locations. After further assessment, former or existing underground hoists were not identified at the proposed locations, however, former or existing underground hoists, were located in nearby service bays. The sampling depths and analysis followed the same rational as with other underground hydraulic hoist boring locations.

Soil matrix sampling location SB-31 was added to an area of the western service bay where a former underground hoist existed. The approved PEA Work Plan did not have a soil matrix sampling location proposed for this location. The sampling depths and analysis followed the same rational as with other underground hydraulic hoist boring locations.

Soil matrix sampling locations SB-32 and SB-33 were added to the sampling matrix. Their location was proposed in the PEA Work Plan, however, the proposed boring number was duplicated with two other location (SB-9 and SB-13). The sampling depths and analyses followed the same rational as with similar PECs.

Soil matrix sampling location SB-21A was added three feet northwest of soil matrix sampling location SB-21 because of refusal, due to subsurface concrete at 3.5 feet bgs, at boring SB-21. The sampling depths and analyses followed the sampling program for boring SB-21.

Soil matrix sampling location SB-34 was added to the sampling matrix to assess the presence of contaminants possibly associated with an elevator piston. The total depth of the elevator piston was estimated to be approximately 25 feet bgs. Three soil samples were collected, 20, 30, and 35 feet bgs. The 20 foot and 30 foot samples were analyzed for SVOCs via EPA Method 8270C, metals by EPA Method 6000/7000 and the 30 foot sample was also analyzed for PCBs according to EPA Method 8082. The 35 foot sample was archived pending results of shallower samples.

No other revisions were made to the proposed soil matrix sampling plan.

13.0 CONCLUSIONS AND RECOMMENDATIONS

13.1 SUMMARY AND CONCLUSIONS

13.1.1 SITE DESCRIPTION

The proposed East Valley Middle School No. 1 is an L-shaped area of land bounded by Kittridge Street on the north, Hamlin Street on the south, Laurel Canyon Boulevard on the east, and Saint Clair Avenue to the west, within the North Hollywood area of the incorporated city of Los Angeles, California. The site consists of approximately 10 acres of commercially developed land (see Figure 2) with four buildings, paved parking lots and a public access road (Bellingham Avenue).

13.1.2 SURROUNDING LAND USE

Single family residences occupy the area northwest of the property. Commercial properties occupy the area north, northeast, east and south of the property. The Valley Plaza Community Center and Park is located west of the site.

13.1.3 LABORATORY ANALYTICAL RESULTS

Results of the soil gas-sampling program, revealed the detection of 13 VOCs at low to trace levels. The highest concentration of VOC detected was PCE at 5.7896 µg/L at location SG-11 (former UST area).

Analytical results of the soil-matrix sampling program revealed the following:

- All of the 17 Title 22 metals were detected across the site with the exception of Thallium. The highest concentrations detected in 12 metals exceeded the highest concentration of their respective backgrounds. None of the site average concentrations of these metals exceeded their respective maximum background concentrations. Based on the latter observation, none of the detected metals were determined to be COPCs.
- Of the 79 soil samples analyzed for SVOCs, one soil sample (SB-21-0.5), near a former
 underground hoist) had detectable concentrations of 12 SVOCs. This sample was retested to
 confirm the concentrations detected (SB-21-0.5R) and a composite of the sample was also
 analyzed (SB-21-0.5H). All SVOCs detected are considered to be COPCs.
- Of the 10 soil samples analyzed for pesticides, four samples showed detectable concentrations of one to three separate pesticides. All pesticides detected are considered to he COPCs.

- TPH was detected at low to trace concentrations in one boring (SB-6) at five and nine feet bgs. The concentrations of TPH detected are not considered to be a concern.
- PCBs were not detected at the site.
- The concentration of pH ranged from 4.12 to 5.84.

13.1.4 HUMAN HEALTH SCREENING EVALUATION

A total of 30 chemicals were identified as COPCs in soil and soil gas at the site. These COPCs were evaluated in the human health screening evaluation.

Using maximum COPC concentrations detected at the site, a total incremental cancer risk for hypothetical residential exposure to soil through direct contact (including incidental ingestion, dermal contact and inhalation of dust particles) was estimated to be 8E-04. The chemicals that contributed to more than 99.9 percent of the estimated incremental cancer risk were the carcinogenic SVOCs detected in soil sample SB-21-0.5. The lateral extent of SVOC impacted soil seems to be very limited as only one of 77 samples collected at the site contained detectable concentrations of SVOCs.

The total hazard index for hypothetical residential exposure to soil through direct contact (including incidental ingestion, dermal contact and inhalation of dust particles) was estimated to be 2.7E-02. The estimated hazard index for the site is below 1.0, the benchmark level for non-cancer effects.

The total cancer risk and hazard index associated with exposure to VOC-impacted indoor air were calculated to be 1.5E-6 and 0.04, respectively. The cancer risk slightly above the risk criterion of 1E-6. The total hazard index for this pathway is below the level of regulatory concern (i.e., 1.0).

The use of the maximum detected soil gas concentrations provides a conservative estimate of associated cancer risks and health hazards. Furthermore, assuming that a resident resides at the site 24 hours per day for 30 years also provides a conservative estimate of the chemical exposure.

In order to utilize all soil gas data collected, soil gas data obtained using EPA Method TO-14A and EPA Method 8260 were combined and the 95% upper confidence limit (95% UCL) from the mean was derived for each averaged VOC concentration. The total cancer risk resulting from inhalation of indoor VOCs at their 95% UCL concentrations was 3.9E-7. The total hazard quotient resulting from this exposure was 0.015. Both values are below the cancer risk criterion of 1E-6 and 1.0 for non-cancer adverse health effects.

For all analytes modeled, the risk due to inhalation of outdoor air was approximately three orders of magnitude smaller than the risk due to inhalation of indoor air. The hazard index due to inhalation of outdoor air was more than an order of magnitude smaller than the hazard index due to inhalation of indoor air. The estimated cancer risk due to inhalation of VOCs in outdoor air was 2.2E-9. This value is below the cancer risk criterion of 1E-6. The estimated total health hazard index due to inhalation of VOCs in outdoor air was 1.2E-3. This value is also below the level of concern of 1.0.

Cumulative potential risks from soil and soil-gas exposure were calculated by summing all pathways. The total cancer risk is 8E-4 at the proposed school site, which exceeds the acceptable criteria of 1E-6. If the SVOC data from SB-21-0.5, the total site cancer risk would be approximately 1.5E-6, which is slightly above cancer risk criterion of 1E-6. Note that the modeled risk is based on the maximum detected concentrations in soil and soil-gas samples rather than an estimate of the average concentrations and therefore provides a conservative estimate of health risk. The cumulative site hazard index is 0.068, which is below the target hazard index of 1.0.

13.2 RECOMMENDATIONS

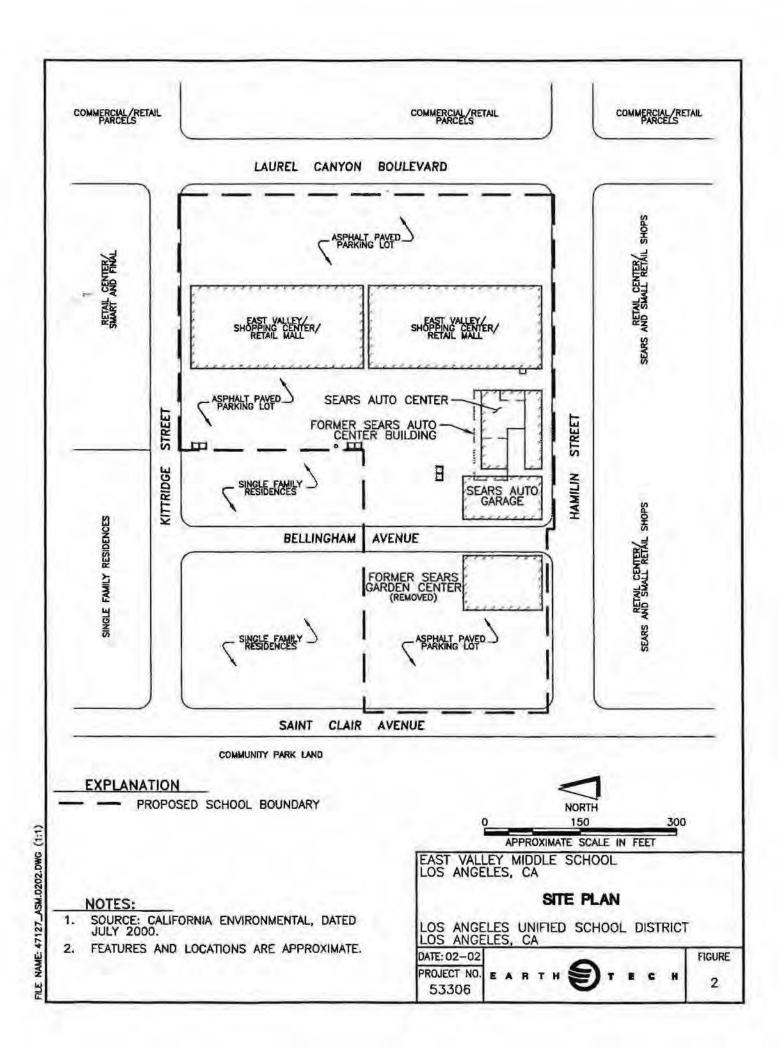
Based on the concentrations of SVOCs detected in soil sample SB-21-0.5, additional assessment to determine the distribution and occurrence of elevated SVOCs should be conducted in the form of a supplemental site investigation (SSI). Results of the SSI will be summarized in a SSI Report with recommendations for either remedial action or no further action. Based on the results of this PEA, no further action for the remainder of the site should be required.

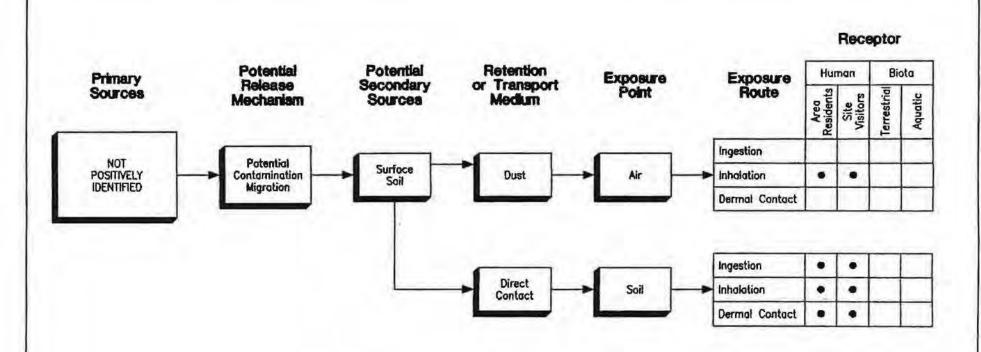
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FIGURES





 REPRESENTS A POSSIBLE EXPOSURE SCENARIO EVALUATED IN PEA

Conceptual Site Model
Potential Pathways

Date 3-02	LAUSD	Cintra
Project No. 53306.06	EARTH TECH	Figure 5

TABLES

Table 1
Summary of Soil Gas Data (EPA Method 8260)
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

	01/22/02	01/22/02	01/22/02	01/22/02		
DIL	FACTOR	1	1	1	1	
	M2-882-3	M2-882-4	M2-882-5	M2-882-6		
CLIE	NT SAN	AMPLE I.D.	SG-1-10	SG-1-10 D	SG-1-20	SG-2-10
COMPOUND	MDL	EQL				
Carbon Tetrachloride	1.0	1.0	ND	ND	ND	ND
Chloroethane	1.0	1.0	ND	ND	ND	ND
Chloroform	1.0	1.0	ND	ND	ND	ND
Dichlorodifluoromethane	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	1.0	1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	1.0	1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
Tetrachloroethylene (PCE)	1.0	1.0	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	1.0	1.0	ND	ND	ND	ND
Trichloroethylene (TCE)	1.0	1.0	ND	ND	ND	ND
Methylene Chloride	1.0	1.0	ND	ND	ND	ND
Trichlorofluoromethane	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	1.0	1.0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene	1.0	1.0	ND	ND	ND	ND
Toluene	2.0	2.0	ND	ND	ND	ND
m,p-Xylenes	2.0	2.0	ND	ND	ND	ND
o-Xylene	1.0	1.0	ND	ND	ND	ND
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	108	108	111	105
Toluene-d8	50	70-130	95	94	94	96
Bromofluorobenzene	50	70-130	94	93	93	95

SPK CONC = Spiking Concentration (<= 5 x PQL); ACP % = Acceptable Range of Percent; %REC = % Recovery; J = Estimated value.

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL); NA = Not Analyzed; EQL = Estimated Quantitation Limit

Table 1 Summary of Soil Gas Data (EPA Method 8260) Proposed East Valley Middle School No. 1 Laurel Canyon Boulevard and Hamlin Street Los Angeles, California

Reporting Unit: µg/L of Air

	DATE AN	ALYZED	01/22/02	01/22/02	01/22/02	01/22/02
DI	LUTION	FACTOR	1	1	1	1
	LAB SAMPLE I.D.				M2-882-9	M2-882-10
CLI	ENT SAN	MPLE I.D.	SG-2-20	SG-3-10	SG-3-20	SG-4-10
COMPOUND	MDL	EQL				
Carbon Tetrachloride	1.0	1.0	ND	ND	ND	ND
Chloroethane	1.0	1.0	ND	ND	ND	ND
Chloroform	1.0	1.0	ND	ND	ND	ND
Dichlorodifluoromethane	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	1.0	1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	1.0	1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
Tetrachloroethylene (PCE)	1.0	1.0	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	1.0	1.0	ND	ND	ND	ND
Trichloroethylene (TCE)	1.0	1.0	ND	ND	ND	ND
Methylene Chloride	1.0	1.0	ND	ND	ND	ND
Trichlorofluoromethane	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	1.0	1.0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene	1.0	1.0	ND	ND	ND	ND
Toluene	2.0	2.0	ND	ND	ND	ND
m,p-Xylenes	2.0	2.0	ND	ND	ND	ND
o-Xylene	1.0	1.0	ND	ND	ND	ND
SURROGATE	SPK	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	107	107	120	112
Toluene-d8	50	70-130	96	96	97	96
Bromofluorobenzene	50	70-130	93	95	95	94

SPK CONC = Spiking Concentration (<= 5 x POL); ACP % = Acceptable Range of Percent; %REC = % Recovery; J = Estimated value.

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL); NA = Not Analyzed; EQL = Estimated Quantitation Limit.

Table 1
Summary of Soil Gas Data (EPA Method 8260)
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

	01/22/02	01/22/02	01/22/02	01/22/02		
DII	FACTOR	1	1	1	1	
	M2-882-11	M2-882-12	M2-882-13	M2-882-14		
CLIE	NT SAN	MPLE I.D.	SG-4-20	SG-5-10	SG-5-20	SG-6-10
COMPOUND	MDL	EQL				
Carbon Tetrachloride	1.0	1.0	ND	ND	ND	ND
Chloroethane	1.0	1.0	ND	ND	ND	ND
Chloroform	1.0	1.0	ND	ND	ND	ND
Dichlorodifluoromethane	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	1.0	1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	1.0	1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
Tetrachloroethylene (PCE)	1.0	1.0	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	1.0	1.0	ND	ND	ND	ND
Trichloroethylene (TCE)	1.0	1.0	ND	ND	ND	ND
Methylene Chloride	1.0	1.0	ND	ND	ND	ND
Trichlorofluoromethane	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	1.0	1.0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene	1.0	1.0	ND	ND	ND	ND
Toluene	2.0	2.0	ND	ND	ND	ND
m,p-Xylenes	2.0	2.0	ND	ND	ND	ND
o-Xylene	1.0	1.0	ND	ND	ND	ND
SURROGATE	SPK	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	115	113	114	119
Toluene-d8	50	70-130	95	97	94	96
Bromofluorobenzene	50	70-130	94	92	94	96

SPK GONC = Spiking Concentration (<= 5 x PQL); ACP % = Acceptable Range of Percent; %REC = % Recovery; J = Estimated value.

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL); NA = Not Analyzed; EQL = Estimated Quantitation Limit.

Table 1
Summary of Soil Gas Data (EPA Method 8260)
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

	ALYZED	01/22/02	01/22/02	01/22/02	01/22/02	
DIL	1	1	1	1		
	LAB SAMPLE I.D. CLIENT SAMPLE I.D.		M2-882-15 SG-6-20	M2-882-16	Amb. Blank	M2-882-1
CLIE				SG-6-20 D	NA	SG-7-10
COMPOUND	MDL	EQL				
Carbon Tetrachloride	1.0	1.0	ND	ND	ND	ND
Chloroethane	1.0	1.0	ND	ND	ND	ND
Chloroform	1.0	1.0	ND	ND	ND	ND
Dichlorodifluoromethane	1.0	1.0	ND	ND	ND	ND.
1,1-Dichloroethane (1,1-DCA)	1.0	1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	1.0	1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
Tetrachloroethylene (PCE)	1.0	1.0	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	1.0	1.0	ND	ND	ND	ND
Trichloroethylene (TCE)	1.0	1.0	ND	ND	ND	ND
Methylene Chloride	1.0	1.0	ND	ND	ND	ND
Trichlorofluoromethane	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	1.0	1.0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene	1.0	1.0	ND	ND	ND	ND
Toluene	2.0	2.0	ND	ND	ND	ND
m,p-Xylenes	2.0	2.0	ND	ND	ND	ND
o-Xylene	1.0	1.0	ND	ND	ND	ND
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	113	112	106	101
Toluene-d8	50	70-130	95	95	96	93
Bromofluorobenzene	50	70-130	96	94	95	93

SPK CONC = Spiking Concentration (<= 5 x PQL); ACP % = Acceptable Range of Percent; %REC = % Recovery; J = Estimated value.

MDL = Method Detection Limit; M8 = Method Blank; ND = Not Detected (Below MDL), NA = Not Analyzed; EQL = Estimated Quantitation Limit.

Table 1
Summary of Soil Gas Data (EPA Method 8260)
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

	01/22/02	01/21/02	01/21/02	01/21/02		
	UTION	1 M2-882-2	1 M2-881-11	1 M2-881-12	1 Amb. Blank	
L	IPLE I.D.					
CLIE		IPLE I.D.	SG-7-20	SG-8-10	SG-8-20	NA
COMPOUND	MDL	EQL				
Carbon Tetrachloride	1.0	1.0	ND	ND	ND	ND
Chloroethane	1.0	1.0	ND	ND	ND	ND
Chloroform	1.0	1.0	ND	ND	ND	ND
Dichlorodifluoromethane	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	1.0	1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	1.0	1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
Tetrachloroethylene (PCE)	1.0	1.0	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	1.0	1.0	ND	ND	ND	ND
Trichloroethylene (TCE)	1.0	1.0	ND	ND	ND	ND
Methylene Chloride	1.0	1.0	ND	ND	ND	ND
Trichlorofluoromethane	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	1.0	1.0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene	1.0	1.0	ND	ND	ND	ND
Toluene	2.0	2.0	ND	ND	ND	ND
m,p-Xylenes	2.0	2.0	ND	ND	ND	ND
o-Xylene	1.0	1.0	ND	ND	ND	ND
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	105	107	108	110
Toluene-d8	50	70-130	96	96	95	95
Bromofluorobenzene	50	70-130	95	96	94	97

SPK CONC = Spiking Concentration (<= 5 x PQL); ACP % = Acceptable Range of Percent; %REC = % Recovery; J = Estimated value.

MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL); NA = Not Analyzed; EQL = Estimated Quantitation Limit.

Table 1
Summary of Soil Gas Data (EPA Method 8260)
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Reporting Unit: µg/L of Air

	ATE AN	ALYZED	01/21/02	01/21/02	01/21/02	01/21/02
DIL	UTION	FACTOR	1	1	1	1
	AB SAN	MPLE I.D.	M2-881-1	M2-881-2	M2-881-3	M2-881-4
CLIE		MPLE I.D.	SG-9-10 A	SG-9-10 B	SG-9-10 C	SG-9-20
COMPOUND	MDL	EQL				01011
Carbon Tetrachloride	1.0	1.0	ND	ND	ND	ND
Chloroethane	1.0	1.0	ND	ND	ND	ND
Chloroform	1.0	1.0	ND	ND	ND	ND
Dichlorodifluoromethane	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	1.0	1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	1.0	1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
Tetrachloroethylene (PCE)	1.0	1.0	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	1.0	1.0	ND	ND	ND	ND
Trichloroethylene (TCE)	1.0	1.0	ND	ND	ND	ND
Methylene Chloride	1.0	1.0	ND	ND	ND	ND
Trichlorofluoromethane	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	1.0	1.0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene	1.0	1.0	ND	ND	ND	ND
Toluene	2.0	2.0	ND	ND	ND	ND
m,p-Xylenes	2.0	2.0	ND	ND	ND	ND
o-Xylene	1.0	1.0	ND	ND	ND	ND
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	104	104	103	103
Toluene-d8	50	70-130	94	98	97	95
Bromofluorobenzene	50	70-130	93	97	95	94

Reporting Unit: µg/L of Air

	ATE AN	ALYZED	01/21/02	01/21/02	01/21/02	01/23/02
DII	LUTION	FACTOR	1	1	1	1
	AB SAN	MPLE I.D.	M2-881-9	M2-881-10	M2-881-8	M2-883-5
CLIE	ENT SAM	IPLE I.D.	SG-10-10	SG-10-20	SG-11-9	SG-12-10
COMPOUND	MDL	EQL				
Carbon Tetrachloride	1.0	1.0	ND	ND]	ND	ND
Chloroethane	1.0	1.0	ND	ND	ND	ND
Chloroform	1.0	1.0	ND	ND	ND	ND
Dichlorodifluoromethane	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	1.0	1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	1.0	1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1,0	1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
Tetrachloroethylene (PCE)	1.0	1.0	ND	1.0	1.5	ND
1,1,1-Trichloroethane (1,1,1-TCA)	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	1.0	1.0	ND	ND	ND	ND
Trichloroethylene (TCE)	1.0	1.0	ND	ND	ND	ND
Methylene Chloride	1.0	1.0	ND	ND	ND	ND
Trichlorofluoromethane	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	1.0	1.0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene	1.0	1.0	ND	ND	ND	ND
Toluene	2.0	2.0	ND	ND	ND	ND.
m,p-Xylenes	2.0	2.0	ND	ND	ND	ND
o-Xylene	1.0	1.0	ND	ND	ND	ND
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	105	110	109	109
Toluene-d8	50	70-130	96	97	96	96
Bromofluorobenzene	50	70-130	95	96	96	92

Reporting Unit: µg/L of Air

	ATE AN	ALYZED	01/23/02	01/23/02	01/23/02	01/23/02
DII	LUTION	FACTOR	1	1	1	1
	AB SAN	MPLE I.D.	M2-883-6	Amb. Blank	M2-883-1	M2-883-2
CLIE	ENT SAN	IPLE I.D.	SG-12-20	NA	SG-13-10	SG-13-20
COMPOUND	MDL	EQL				
Carbon Tetrachloride	1.0	1.0	ND	ND	ND	ND
Chloroethane	1.0	1.0	ND	ND	ND	ND
Chloroform	1.0	1.0	ND	ND	ND	ND
Dichlorodifluoromethane	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	1.0	1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	1.0	1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
Tetrachloroethylene (PCE)	1.0	1.0	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	1.0	1.0	ND	ND	ND	ND
Trichloroethylene (TCE)	1.0	1.0	ND	ND	ND	ND
Methylene Chloride	1.0	1.0	ND	ND	ND	ND
Trichlorofluoromethane	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	1.0	1.0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene	1.0	1.0	ND	ND	ND	ND
Toluene	2.0	2.0	ND	ND	ND	ND
m,p-Xylenes	2.0	2.0	ND	ND	ND	ND
o-Xylene	1.0	1.0	ND	ND	ND	ND
SURROGATE	SPK	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	115	105	108	108
Toluene-d8	50	70-130	96	97	97	97
Bromofluorobenzene	50	70-130	93	94	92	92

Reporting Unit: µg/L of Air

	ATE AN	ALYZED	01/21/02	01/21/02	01/21/02	01/21/02
DIL	UTION	FACTOR	1	1	1	1_
	AB SAN	MPLE I.D.	M2-882-14	M2-881-13	M2-881-5	M2-881-6
CLIE	NT SAN	MPLE I.D.	SG-14-10	SG-14-20	SG-15-10	SG-15-20
COMPOUND	MDL	EQL				
Carbon Tetrachloride	1.0	1.0	ND	ND	ND	ND
Chloroethane	1.0	1.0	ND	ND	ND	ND
Chloroform	1.0	1.0	ND	ND	ND	ND
Dichlorodifluoromethane	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	1.0	1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	1.0	1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
Tetrachloroethylene (PCE)	1.0	1.0	ND	ND	1.1	1.3
1,1,1-Trichloroethane (1,1,1-TCA)	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	1.0	1.0	ND	ND	ND	ND
Trichloroethylene (TCE)	1.0	1.0	ND	ND	ND	ND
Methylene Chloride	1.0	1.0	ND	ND	ND	ND
Trichlorofluoromethane	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	1.0	1.0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene	1.0	1.0	ND	ND	ND	ND
Toluene	2.0	2.0	ND	ND	ND	ND
m,p-Xylenes	2.0	2.0	ND	ND	ND	ND
o-Xylene	1.0	1.0	ND	ND	ND	ND
SURROGATE	SPK	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	118	109	105	104
Toluene-d8	50	70-130	94	95	96	94
Bromofluorobenzene	50	70-130	94	93	97	97

Reporting Unit: µg/L of Air

	ATE AN	ALYZED	01/21/02	01/23/02	01/23/02	01/23/02
DIL	UTION	FACTOR	1	1	1	1
	AB SAN	IPLE I.D.	M2-881-7	M2-883-3	M2-883-4	M2-883-7
CLIE	NT SAN	IPLE I.D.	SG-15-20 D	SG-16-10	SG-16-20	SG-17-10
COMPOUND	MDL	EQL				
Carbon Tetrachloride	1.0	1.0	ND	ND	ND	ND
Chloroethane	1.0	1.0	ND	ND	ND	ND
Chloroform	1.0	1.0	ND	ND	ND	ND
Dichlorodifluoromethane	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	1.0	1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	1.0	1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
Tetrachloroethylene (PCE)	1.0	1.0	1.2	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	1.0	1.0	ND	ND	ND	ND
Trichloroethylene (TCE)	1.0	1.0	ND	ND	ND	ND
Methylene Chloride	1.0	1.0	ND	ND	ND	ND
Trichlorofluoromethane	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	1.0	1.0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene	1.0	1.0	ND	ND	ND	ND
Toluene	2.0	2.0	ND	ND	ND	ND
m,p-Xylenes	2.0	2.0	ND	ND	ND	ND
o-Xylene	1.0	1.0	ND	ND	ND	ND
SURROGATE	SPK	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	107	105	105	113
Toluene-d8	50	70-130	95	96	95	95
Bromofluorobenzene	50	70-130	98	92	93	93

Reporting Unit: µg/L of Air

	ATE AN	ALYZED	01/23/02	01/23/02	01/23/02	01/23/02
DII	LUTION	FACTOR	1	1*	1	1
	AB SAN	APLE I.D.	M2-883-8	M2-883-9	M2-883-18	M2-883-10
CLIE	NT SAN	IPLE I.D.	SG-17-20	SG-18-10	SG-18-10 R	SG-18-18
COMPOUND	MDL	EQL				
Carbon Tetrachloride	1.0	1.0	ND	ND	ND	ND
Chloroethane	1.0	1.0	ND	ND	ND	ND
Chloroform	1.0	1.0	ND	ND	ND	ND
Dichlorodifluoromethane	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	1.0	1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	1.0	1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
Tetrachloroethylene (PCE)	1.0	1.0	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	1.0	1.0	ND	ND	ND	ND
Trichloroethylene (TCE)	1.0	1.0	ND	ND	ND	ND
Methylene Chloride	1.0	1.0	ND	ND	ND	ND
Trichlorofluoromethane	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	1.0	1.0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND.	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene	1.0	1.0	ND	ND	ND	ND
Toluene	2.0	2.0	ND	ND	ND	ND
m,p-Xylenes	2.0	2.0	ND	ND	ND	ND
o-Xylene	1.0	1.0	ND	ND	ND	ND
SURROGATE	SPK	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	114	108	111	102
Toluene-d8	50	70-130	91	90	97	91
Bromofluorobenzene	50	70-130	97	99	91	99

^{*} Tracer, hexane, was detected in sample.

Reporting Unit: µg/L of Air

	11.00	ALYZED	01/23/02	01/23/02	01/23/02	01/23/02
DIL	LUTION	FACTOR	1	1	1	1
	AB SAN	APLE I.D.	M2-883-15	M2-883-16	M2-883-17	M2-883-13
CLIE	NT SAM	IPLE I.D.	SG-19-10	SG-19-10 D	SG-19-20	SG-20-10
COMPOUND	MDL	EQL				
Carbon Tetrachloride	1.0	1.0	ND	ND	ND	ND
Chloroethane	1.0	1.0	ND	ND	ND	ND
Chloroform	1.0	1.0	ND	ND	ND	ND
Dichlorodifluoromethane	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	1.0	1.0	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	1.0	1.0	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	1.0	1.0	ND	ND	ND	ND
cis-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
trans-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	ND
Tetrachloroethylene (PCE)	1.0	1.0	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	1.0	1.0	ND	ND	ND	ND
Trichloroethylene (TCE)	1.0	1.0	ND	ND	ND	ND
Methylene Chloride	1.0	1.0	ND	ND	ND	ND
Trichlorofluoromethane	1.0	1.0	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	1.0	1,0	ND	ND	ND	ND
Vinyl Chloride	0.1	0.4	ND	ND	ND	ND
Benzene	0.1	0.4	ND	ND	ND	ND
Ethylbenzene	1.0	1.0	ND	ND	ND	ND
Toluene	2.0	2.0	ND	ND	ND	ND
m,p-Xylenes	2.0	2.0	ND	ND	ND	ND
o-Xylene	1.0	1.0	ND	ND	ND	ND
SURROGATE	SPK	ACP%	%REC	%REC	%REC	%REC
Dibromofluoromethane	50	70-130	117	116	118	107
Toluene-d8	50	70-130	95	96	95	91
Bromofluorobenzene	50	70-130	95	94	93	99

Reporting Unit: µg/L of Air

	ATE AN	ALYZED	01/23/02	01/23/02	01/23/02	
DII	LUTION	FACTOR	1	1	1	
	AB SAN	MPLE I.D.	M2-883-14	M2-883-11	M2-883-12	
CLIE	NT SAN	MPLE I.D.	SG-20-20	SG-21-10	SG-21-20	
COMPOUND	MDL	EQL				
Carbon Tetrachloride	1.0	1.0	ND	ND	ND	
Chloroethane	1.0	1.0	ND	ND	ND	
Chloroform	1.0	1.0	ND	ND	ND	
Dichlorodifluoromethane	1.0	1.0	ND	ND	ND	
1,1-Dichloroethane (1,1-DCA)	1.0	1.0	ND	ND	ND	
1,2-Dichloroethane (1,2-DCA)	1.0	1.0	ND	ND	ND	
1,1-Dichloroethylene (1,1-DCE)	1.0	1.0	ND	ND	ND	
cis-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	
trans-1,2-Dichloroethylene	1.0	1.0	ND	ND	ND	
1,1,1,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	
1,1,2,2-Tetrachloroethane	1.0	1.0	ND	ND	ND	
Tetrachloroethylene (PCE)	1.0	1.0	ND	ND	ND	
1,1,1-Trichloroethane (1,1,1-TCA)	1.0	1.0	ND	ND	ND	
1,1,2-Trichloroethane (1,1,2-TCA)	1.0	1.0	ND	ND	ND	
Trichloroethylene (TCE)	1.0	1.0	ND	ND	ND	
Methylene Chloride	1.0	1.0	ND	ND	ND	
Trichlorofluoromethane	1.0	1.0	ND	ND	ND	
1,1,2-Trichlorotrifluoroethane	1.0	1.0	ND	ND	ND	
Vinyl Chloride	0.1	0.4	ND	ND	ND	
Benzene	0.1	0.4	ND	ND	ND	
Ethylbenzene	1.0	1.0	ND	ND	ND	
Toluene	2.0	2.0	ND	ND	ND	
m,p-Xylenes	2.0	2.0	ND	ND	ND	
o-Xylene	1.0	1.0	ND	ND	ND	
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	
Dibromofluoromethane	50	70-130	106	107	106	
Toluene-d8	50	70-130	91	91	91	
Bromofluorobenzene	50	70-130	99	98	99	

Method: EPA TO-14A Matrix: Air

CLIENT: LAUSD

Project : Proposed East Valley Middle School No. 1

			Results				
Sample Number: SG-4-10	6					-	
Compound	Result	RL (ppb)	MW (g)	Result (µg/m3)	RL (µg/m3)	Result (µg/l)	RL (pg/l)
	Man serie	(hi)mi	191	(Pg/(IP)	(pg///is/	The state of	(harry
Dichlorodifluoromethane	10	0.7	120.91	50.25	3.4616	0.0503	0.003
Chloromethane	ND	0.7	50.49	ND	1.4455	ND	0.001
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	ND	2.8	170.93	ND	19.5748	ND	0.019
Vinyl Chloride	ND	0.7	62.5	ND	1.7894	ND	0.001
Bromomethane	ND	0.7	94.94	ND	2.7181	ND	0.002
Chloroethane	ND	0.7	84.52	ND	1.8472	ND	0.001
Trichlorofluoromethane	ND	0.7	137.38	ND	3.9332	ND	0.003
1,1-Dichloroethene	ND	0.7	96.95	ND	2.7757	ND	0.002
Methylene Chloride	ND	2.8	84.94	ND	9.7273	ND	0.009
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.4	187.38	ND	10,7293	ND	0.010
1,1-Dichloroethane	ND	0.7	98.96	ND	2.8332	ND	0.002
c-1,2-Dichloroethene	ND	0.7	96.94	ND	2.7754	ND	0.002
Chloroform	ND	0.7	119.38	ND	3.4178	ND	0.003
1,2-Dichloroethane	ND	0.7	98.98	ND	2,8332	ND	0.0028
1,1,1-Trichloroethane	ND	0.7	133,41	ND	3.8195	ND	0.003
Benzene	ND	0.7	78.12	ND	2,2366	ND	0.002
Carbon Tetrachloride	ND	0.7	153,82	ND	4.4038	ND	0.004
1,2-Dichloropropane	ND	0.7	112,99	ND	3.2349	ND	0.0033
c-1,3-Dichloropropene	ND	0.7	110.97	ND	3.1771	ND	0.003
1-1,3-Dichloropropene	ND	0.7	110.97	ND	3,1771	ND	0.003
1.1,2-Trichloroethane	ND	0.7	133.41	ND	3.8195	ND	0.003
Toluene	3.8	0.7	92.16	14.55	2.6382	0.0146	0.0026
Trichloroethene	ND	0.7	131.29	ND	3,7588	ND	0.003
1,2-Dibromoethane	ND	0.7	187.88	ND	5,3790	ND	0.005
Tetrachlorcethene	4.3	0.7	165.83	29.64	4.7477	0.0296	0.004
Chlorobenzene	ND	0.7	112.58	ND	3.2226	ND	0.0032
Ethylbenzene	2.7	0.7	108.17	11.91	3,0396	0.0119	0.0030
p/m-Xylene	16	1.4	106.17	70.80	6.0793	0.0706	0.0061
Styrene	ND	1.4	104.16	ND	5.9642	ND	0.0060
1.1,2,2-Tetrachloroethane	ND	0.7	169.87	ND	4.8834	ND	0.0049
o-Xylene	8.7	0.7	106.17	38.39	3,0396	0.0384	0.003
1,3,5-Trimethylbenzene	3	0.7	120.2	14.99	3,4413	0.0150	0.0034
1,2,4-Trimethylbenzene	5.7	0.7	120.2	28.48	3.4413	0.0285	0.003
Benzyl Chloride	ND	0.7	126.59	ND	3.6243	ND	0.003
1.3-Dichlorobenzene	ND	0.7	147.01	ND	4.2089	ND	0.004
1.4-Dichlorobenzene	ND	0.7	147.01	ND	4.2089	ND	0.004
1,2-Dichlorobenzene	ND	0.7	147.01	ND	4.2089	ND	0.004
1,2,4-Trichlorobenzene	ND	0.7	181.45	ND	5.1949	ND	0.005
Hexachloro-1,3-Butadiene	ND	0.7	260.72	ND	7.4844	ND	0.007
	(ppm v/v)	(ppm)					
Methane	1	1					
(SCAQMD Method 25.1)	,	100					

Notes: MW-molecular weight, RL-Reporting Limit, ND-None Detected

Table 2 Summary of Soil Gas Data (EPA Method TO-14A) Proposed East Valley Middle School No. 1 Laurel Canyon Boulevard and Hamlin Street Los Angeles, California

CLIENT: LAUSD Project : Proposed East Valley Middle School No. 1

		R	esults				
Sample Number: SG-4-20	Result	RL	MW	Result	RL	Result	RL
Compound	(ppb v/v)	(ppb)	(9)	(µg/m3)	(µg/m3)	(µg/l)	(µg/l)
Dichlorodifluoromethane	15	0.7	120.91	75,38	3.4616	0.0754	0.0035
Chloromethane	ND	0.7	50.49	ND	1.4455	ND	0.0014
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	ND	2.8	170.93	ND	19.5748	ND	0.0196
Vinyl Chloride	ND	0.7	62.5	ND	1.7894	ND	0.0016
Bromomethane	ND	0.7	94.94	ND	2.7181	ND	0.002
Chloroethane	ND	0.7	64.52	ND	1.8472	ND	0.001
Trichlorofluoromethane	ND	0.7	137.38	ND	3.9332	ND	0.003
1,1-Dichloroethene	ND	0.7	96.95	ND	2.7757	ND	0.0028
Methylene Chloride	ND	2.8	84,94	ND	9.7273	ND	0.009
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.4	187.38	ND	10.7293	ND	0.0107
1,1-Dichloroethane	ND	0.7	98.96	ND	2.8332	ND	0.002
c-1,2-Dichloroethene	ND	0.7	98.94	ND	2.7754	ND	0.002
Chloroform	ND	0.7	119.38	ND	3.4178	ND	0.0034
1,2-Dichloroethane	ND	0.7	98.96	ND	2.8332	ND	0.002
1,1,1-Trichloroethane	1	0.7	133,41	5.54	3.8195	0.0055	0.003
Benzene	ND	0.7	78,12	ND.	2.2366	ND	0.002
Carbon Tetrachloride	ND	0.7	153.82	ND	4.4038	ND	0.004
	ND	0.7	112.99	ND	3.2349	ND	0.003
1,2-Dichloropropane c-1,3-Dichloropropene	ND	0.7	110,97	ND	3,1771	ND	0.003
	ND	0.7	110.97	ND	3.1771	ND	0.003
t-1,3-Dichloropropene 1,1,2-Trichloroethane	ND	0.7	133.41	ND	3.6195	ND	0.003
Toluene	4.6	0.7	92.15	17.62	2.6382	0.0176	0.002
TOTAL PARTY.	ND	0.7		ND	3,7588	The second second second	0.002
Trichloroethene		0.7	131,29	ND	11300000000	ND	
1,2-Dibromoelhane	ND		187.88		5.3790	ND	0.005
Tetrachloroethene	9.3	0.7	185.83	64.10	4.7477	0.0641	0.004
Chlorobenzene	ND	0.7	112.56	ND	3,2226	ND	0.003
Ethylbenzene	4.1	0.7	106.17	18.09	3.0396	0.0181	0.003
p/m-Xylene	21	1.4	106.17	92,67	6.0793	0.0927	0.006
Styrene	ND	1.4	104.16	ND	5.9642	ND	0.006
1,1,2,2-Tetrachtoroethane	ND	0.7	169.87	ND	4.8634	ND	0.004
o-Xylene	9.6	0.7	106.17	42.36	3.0396	0.0424	0.003
1,3,5-Trimethylbenzene	2.3	0.7	120.2	11.49	3.4413	0,0115	0.003
1,2,4-Trimethylbenzene	4.9	0.7	120.2	24.48	3.4413	0.0245	0.003
Benzyl Chloride	ND	0.7	126.59	ND	3.6243	ND	0.003
1,3-Dichlorobenzene	ND	0.7	147.01	NO	4.2089	ND	0.004
1,4-Dichlorobenzene	ND	0.7	147.01	ND	4.2089	ND	0.004
1,2-Dichlorobenzene	ND	0.7	147.01	ND	4.2089	ND	0.004
1,2,4-Trichlorobenzene	ND	0.7	181.45	ND	5.1949	ND	0.005
Hexachloro-1,3-Butadiene	ND	0.7	260.72	ND	7_4544	ND	0.007
	(ppm v/v)	(ppm)					
Methane	ND	1					
(SCAQMD Method 25.1)							

Notes: MW-molecular weight, RL-Reporting Limit, ND-None Detected

Method: EPA TO-14A Matrix: Air

CLIENT: LAUSD

Project : Proposed East Valley Middle School No. 1

			tesult#				
Sample Number: SG-10-10	THE RESERVE OF THE PROPERTY OF						
	Result	RL	MW	Result	RL	Result	RL
Compound	(ppb v/v)	(ppb)	(g)	(Em/gu)	(pg/m3)	(l/g/l)	(l/g/l)
Dichlorodifluoromethane	0.92	88.0	120.91	4.62	3.3627	0.0046	0.003
Chloromethane	ND	0.68	50.49	ND	1 4042	ND	0.001
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	ND	2.7	170.93	ND	18.8757	ND	0.018
Vinyl Chlaride	ND	0.68	62.5	ND	1.7382	ND	0.001
Bromomethane	ND	0.68	94.94	ND	2.6405	ND	0.002
Chloroethane	ND	0.68	64.52	ND	1.7944	ND	0.001
Trichlorofluoromethane	ND	0.68	137.38	ND	3.8208	ND	0.003
1,1-Dichloroethene	ND	0.68	96.95	ND	2.6984	ND	0,002
Methylene Chloride	ND	2.7	84.94	ND	9.3799	ND	0,009
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.4	187.38	ND	10.7293	ND	0.010
1.1-Dichloroethane	ND	0.68	98.96	ND	2.7523	ND	0.002
c-1,2-Dichloroethene	ND	0.68	96.94	ND	2,6961	ND	0.002
Chloroform	ND	0.68	119.38	ND	3.3202	ND	0.003
1,2-Dichloroethane	ND	0.68	98.96	ND	2.7523	ND	0.002
1,1,1-Trichloroethane	ND	0.68	133,41	ND	3.7104	ND	0.002
Benzene	1.9	88.0	78.12	5.17	2.1727	0.0062	0,003
Carbon Tetrachloride	ND	0.68	153.82	ND	4.2780	ND	0.004
1,2-Dichloropropane	ND	0.68	112.99	ND	3.1425	ND	0.003
c-1,3-Dichloropropene	ND	0.68	110.97	ND	3.0863	ND	0.003
Control of the Contro	ND	0.68	110.97				
t-1,3-Dichloropropene 1,1,2-Trichloroethane	ND	0.68	7.75.75	ND	3.0863	ND	0.003
			133.41	ND	3.7104	ND	0.003
Toluene	26	0.68	92.15	99.58	2,5629	0.0996	0.002
Trichloroethene	ND	0.68	131.29	ND	3.6514	ND	0,003
1,2-Dibromoethane	ND	0.68	187.88	ND	5.2253	ND	0.005
Tetrachloroethene	170	2.7	165.83	1171.70	18.3125	1.1717	0.018
Chlorobenzene	ND	0.68	112.56	ND	3.1305	ND	0.003
Ethylbenzene	9.7	0.68	106.17	42.80	2.9528	0.0428	0.003
p/m-Xylene	47	1.4	106.17	207.40	8.0793	0.2074	0.006
Styrene	ND	1,4	104.16	ND	5,9842	ND	0.008
1,1,2,2-Tetrachloroethane	ND	0.68	169.87	ND	4.7244	ND	0.004
p-Xylene	19	0.68	106.17	83,84	2.9528	0.0838	0.003
1,3,5-Trimethylbenzene	11	0.68	120.2	54.95	3,3430	0.0550	0.003
1,2,4-Trimethylbenzene	21	0.68	120.2	104.91	3.3430	0.1049	0.003
Benzyl Chloride	ND	0.68	126.59	ND	3.5207	ND	0,003
1,3-Dichlorobenzene	ND	0.68	147,01	ND	4.0886	ND	0.004
1,4-Dichlorobenzene	ND	0.68	147,01	ND	4.0886	ND	0,004
1,2-Dichlorobenzene	ND	0.68	147.01	ND	4.0886	ND	0.004
1,2,4-Trichlorobenzene	ND	0.68	181.45	ND	5.0465	ND	0.005
Hexachloro-1,3-Butadiene	ND	0.68	260.72	ND	7.2511	ND	0.007
	(ppm v/v)	(ppm)					
Methane	ND	1					
(SCAQMD Method 25.1)							

Notes: MW-molecular weight, RL-Reporting Limit, ND-None Detected

Method: EPA TO-14A Matrix: Air

CLIENT: LAUSD

Project : Proposed East Valley Middle School No. 1

		F	lesults				
Sample Number: SG-10-20							
	Result	RL	MW	Result	RL	Result	RL
Compound	(ppb v/v)	(ppb)	(0)	(µg/m3)	(µg/m3)	(hgil)	(µg/l)
Dichlorodifluoromethane	1.3	0.67	120.91	6.53	3.3133	0.0065	0.0033
Chloromethane	ND	0.67	50.49	ND	1.3836	ND	0.0014
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	ND	2.7	170.93	ND	18,8757	ND	0.0189
Vinyl Chloride	ND	0.67	62.5	ND	1.7127	ND	0.0017
Bromomethane	ND	0.67	94.94	ND	2.6016	ND	0.0026
Chloroethane	ND	0.67	64.52	ND	1.7680	ND	0.0018
Trichlorofluoromethane	0.68	0.67	137.38	3.88	3.7646	0.0039	0.0038
1,1-Dichloroethene	ND	0.67	96.95	ND	2.6567	ND	0.0027
Methylene Chloride	ND	2.7	84.94	ND	9.3799	ND	0.0094
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.3	187.38	ND	9.9629	ND	0.0100
1,1-Dichloroethane	ND	0.67	98.96	ND	2,7118	ND	0.0027
c-1,2-Dichloroethene	ND	0.67	96.94	ND	2.6564	ND	0.0027
Chloroform	ND	0.67	119.38	ND	3.2714	ND	0.0033
1,2-Dichloroethane	ND	0.67	98.96	ND	2.7118	ND	0.0027
1,1,1-Trichloroethane	0.98	0.67	133.41	5.43	3,6558	0.0054	0.0037
Benzene	0.94	0.67	78.12	3.05	2.1407	0.0031	0.0021
Carbon Tetrachloride	ND	0.67	153.82	ND	4.2151	ND	0.0042
1,2-Dichloropropane	ND	0.67	112.99	ND	3.0962	ND	0.0031
c-1,3-Dichloropropene	ND	0.67	110.97	ND	3.0409	ND	0.0030
1-1,3-Dichloropropene	ND	0.67	110.97	ND	3.0409	ND	0.0030
1,1,2-Trichloroethane	ND	0.67	133.41	ND	3,6558	NO	0.0037
Toluene	9.2	0.67	92.15	35.24	2.5252	0.0352	0.0025
Trichloroethene	ND	0.67	131.29	ND	3,5977	NO	0.0036
1,2-Dibromoethane	ND	0.67	187.88	ND	5,1484	ND	0.0051
Tetrachloroethene	740	11	165.83	5100.34	74.6065	5.1003	0.0746
Chlorobenzene	ND	0.67	112.56	ND	3.0845	ND	0.0031
Ethylbenzene	5.4	0.67	106.17	23.83	2.9094	0.0238	0.0029
p/m-Xylene	30	1.3	106.17	132.38	5.6450	0.1324	0.0056
Styrene	ND	1.3	104.16	ND	5.5382	ND	0.0055
1,1,2,2-Tetrachloroethane	ND	0.67	169.87	ND	4.6549	ND	0.0047
o-Xylene	20	D.67	106.17	88.26	2,9094	0.0883	0.0029
1,3,5-Trimethylbenzene	28	0.67	120.2	139.88	3,2938	0.1399	0.0033
1,2,4-Trimethylbenzene	370	11	120.2	1848.46	54.0777	1.8485	0.0541
Benzyl Chloride	ND	0.67	128,59	ND	3,4689	ND	0.0035
1,3-Dichlorobenzene	ND	0.67	147,01	ND	4.0285	ND	0.0040
1,4-Dichlorobenzene	ND	0.67	147.01	ND	4.0286	ND	0.0040
1,2-Dichlorobenzene	ND	0.67	147.01	ND	4.0285	ND	0.0040
1,2.4-Trichlorobenzene	ND	0.67	181.45	ND	4.9722	ND	0.0050
Hexachloro-1,3-Butadlene	ND	0.67	260.72	ND	7.1445	ND	0.0071
	(ppm v/v)	(ppm)					
Methane	ND	1	16.04				
(SCAQMD Method 25.1)							

Notes: MW-molecular weight, RL-Reporting Limit, ND-None Detected

Method: EPA TO-14A Matrix: Air

CLIENT: LAUSD

Project : Proposed East Valley Middle School No. 1

		1	česults				
Sample Number: SG-11-9D	A-0,7-1-2,10-1-3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1						
4 (9)	Result	RL	WAA	Result	RL	Result	RL
Compound	(ppb v/v)	(ppb)	(9)	(£migu)	(µg/m3)	(hg/l)	(µg/I)
Dichlorodifluoromethane	1.8	0.7	120.91	9,05	3.4616	0.0090	0.0035
Chloromethane	ND	0.7	50,49	ND	1,4455	ND	0.0014
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	ND	2.8	170,93	ND	19.5748	ND	0.0196
Vinyl Chloride	ND	0.7	62.5	ND	1.7894	ND	0.0018
Bromomethane	ND	0.7	94.94	ND	2.7181	ND	0.002
Chloroethane	ND	0.7	64.52	ND	1.8472	NO	0.001
Trichlorofluoromethane	0.78	0.7	137,38	4.45	3.9332	0.0045	0.0039
1,1-Dichloroethene	ND	0.7	96.95	ND	2,7757	ND	0.0028
Methylene Chloride	ND	2.8	84.94	ND	9,7273	ND	0.0097
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.4	187,38	ND	10,7293	ND	0.0107
1,1-Dichloroethane	ND	0.7	98.96	ND	2.6332	ND	0.0028
c-1,2-Dichloroethene	ND	0.7	96.94	ND	2,7754	ND	0.0028
Chloroform	ND	0.7	119.38	ND	3,4178	ND	0.0034
1,2-Dichloroethane	ND	0.7	98.96	ND	2,8332	ND	0.0028
1,1,1-Trichloroethane	0.95	0.7	133.41	5.27	3.8195	0.0053	0.0036
Benzene	1.5	0.7	78.12	4.87	2.2366	0.0049	0.0022
Carbon Tetrachloride	ND	0.7	153.82	ND	4.4038	ND	0.0044
1,2-Dichloropropane	ND	0.7	112.99	ND	3.2349	ND	0.0032
c-1,3-Dichloropropene	ND	0.7	110.97	ND	3.1771	ND	0.0032
t-1,3-Dichloropropene	ND	0.7	110.97	ND	3.1771	ND	0.0032
1,1,2-Trichloroethane	ND	0.7	133,41	ND	3.8195	ND	0.0038
Toluene	16	0.7	92,15	61.28	2.6382	0.0613	0.0026
Trichloroethene	3.8	0.7	131.29	20.74	3.7588	0.0207	0.0038
1,2-Dibromoethane	ND	0.7	187.88	ND	5,3790	ND	0.0054
Tetrachloroethene	840	14	165.83	5789.58	94.9538	5.7896	0.0950
Chlorobenzene	ND	0.7	112.56	ND	3.2226	ND	0.0032
Ethylbenzene	4.9	0.7	106,17	21.62	3,0396	0.0216	0.0030
p/m-Xylene	27	1.4	108.17	119,14	6,0793	0.1191	0.0061
Styrene	ND	1.4	104.16	ND	5.9642	ND	0.0060
1,1,2,2-Tetrachloroethane	ND	0.7	169.87	ND	4.8634	NO	0.0048
o-Xylene	12	0.7	106,17	52,95	3.0396	0.0530	0.0030
1,3,5-Trimethylbenzene	7	0.7	120.2	34,97	3,4413	0.0350	0.0034
1,2,4-Trimethylbenzena	15	0.7	120.2	74.94	3.4413	0.0749	0.0034
Benzyl Chloride	ND	0.7	126,59	ND	3.6243	NO	0.0036
1,3-Dichlorobenzene	ND	0.7	147.01	ND	4,2089	ND	0.004
1,4-Dichlorobenzene	ND	0.7	147.01	ND	4.2089	ND	0.0042
1,2-Dichlorobenzene	ND	0.7	147.01	ND	4.2089	ND	0.0042
1,2,4-Trichlorobenzene	ND	0.7	181.45	ND	5.1949	ND	0.0052
Hexachloro-1,3-Butadiene	ND	0.7	260.72	ND	7.4644	ND	0.0078

Notes: MW-molecular weight, RL-Reporting Limit, ND-None Detected

Table 2
Summary of Soil Gas Data (EPA Method TO-14A)
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

CLIENT: LAUSD

Project : Proposed East Valley Middle School No. 1

			Results				
Sample Number: SG-14-20D	Result	RL	MW	Restilt	RL	Result	RL
Compound	(ppb v/v)	(ppb)	(g)	(µg/m3)	(µg/m3)	(µg/l)	(µg/i)
Plantife a de all disse a de la	3.4	0.7	400.04	40.00			0.0005
Dichlorodifluoromethane	(70.2)	0.7	120.91	17.09	3.4616	0.0171	0.0035
Chloromethane	ND	0.7	50.49	ND	1,4455	ND	0.0014
1,2-Dichloro-1,1,2,2-Tetrafluorgethane	ND	2.8	170.93	ND	19,5748	ND	0.0198
Vinyl Chloride	ND	0.7	62.5	ND	1.7894	ND	0.0018
Bromomethane	ND	0.7	94.94	ND	2,7181	ND	0.0027
Chloroethane	ND	0.7	64.52	ND	1.8472	ND	0,0018
Trichlorofluoromethane	30	0.7	137.38	171.30	3.9332	0.1713	0.0039
1,1-Dichloroethene	ND	0.7	96.95	ND	2.7757	ND	0,0028
Methylene Chloride	ND	2.8	84.94	ND	9.7273	ND	0.0097
1,1,2-Trichloro-1,2,2-Triffuoroethane	ND	1.4	187.38	ND	10.7293	ND	0.0107
1,1-Dichloroethane	ND	0.7	98,96	ND	2.8332	ND	0,0028
c-1,2-Dichloroethene	ND	0.7	96.94	ND	2.7754	ND	0.0028
Chlaroform	ND	0.7	119.38	ND	3,4178	ND	0.0034
1,2-Dichloroethane	ND	0.7	98.96	ND	2.8332	ND	0.0028
1,1,1-Trichloroethane	0.88	0.7	133.41	4.88	3,8195	0.0049	0.0038
Benzene	ND	0.7	78.12	ND	2.2366	ND	0.0022
Carbon Tetrachloride	ND	0.7	153,82	ND	4,4038	ND	0.0044
1,2-Dichloropropane	ND	0.7	112.99	ND	3,2349	ND	0.0032
o-1,3-Dichloropropene	ND	0.7	110.97	ND	3,1771	ND	0.0032
-1,3-Dichloropropene	ND	0.7	110,97	ND	3,1771	ND	0.0032
1,1,2-Trichloroethane	ND	0.7	133,41	ND	3.8195	ND	0.0038
Toluene	4.5	0.7	92.15	17.24	2,6382	0.0172	0.0026
Trichloroethene	ND	0.7	131.29	ND	3.7588	ND	0.0038
1,2-Dibromoethane	ND	0.7	187.88	ND	5.3790	ND	0.0054
Tetrachloroethene	110	2.8	165.83	758.16	18.9908	0,7582	0,0190
Chlorobenzene	ND	0.7	112.56	ND	3,2226	ND	0.0032
Ethylbenzene	2.7	0.7	106.17	11.91	3.0396	0.0119	0.0030
p/m-Xylene	15	1.4	106.17	56.19	6,0793	0.0662	0.0061
Styrene	ND	1.4	104.16	ND	5.9642	ND	0.0060
1.1.2.2-Tetrachloroethane	ND	0.7	169.87	ND	4.8634	ND	0.0049
-Xylene	6.3	0.7	106.17	27.80	3.0396	0.0278	0.0030
1,3,5-Trimethylbenzene	1.1	0.7	120.2	5.50	3.4413	0.0055	0,0034
1,2,4-Trimethylbenzene	2.6	0.7	120.2	12.99	3,4413	0.0033	0.0034
Benzyl Chloride	ND ND	0.7	126.59	ND	3.6243	ND	0.0036
1,3-Dichlorobenzene	ND	0.7	147.01	ND	4.2088	ND	0.0036
1,4-Dichlorobenzene	ND	0.7		7/1/20			
1,4-Dichlorobenzene	ND		147.01	ND	4.2089	ND	0.0042
1,2-Dichlorobenzene 1,2,4-Trichlorobenzene		0.7	147.01	ND	4.2089	ND	0.0042
The state of the s	ND	0.7	181.45	ND	5,1949	ND	0.0052
Hexachloro-1,3-Butadlene	ND	0.7	260.72	ND	7.4644	ND	0,0075

Notes: MW-molecular weight, RL-Reporting Limit, ND-None Detected

Table 2
Summary of Soil Gas Data (EPA Method TO-14A)
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

CLIENT: LAUSD

Project : Proposed East Valley Middle School No. 1

		,	Reaulta				
Sample Number: SG-15-10D				- L 1 - L			
***************************************	Result	RL	MW	Result	RL	Result	RL
Compound	(ppb v/v)	(ppb)	(9)	(µg/m3)	(µg/m3)	(l/gu)	(jigil)
Dichlorodifluoromethane	1.5	0.7	120.91	7.54	3.4616	0.0075	0.003
Chloromethane	ND	0.7	50.49	ND	1,4455	ND	0.001
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	ND	2.8	170.93	ND	19.5748	ND	0,019
Vinyl Chloride	ND	0.7	62.5	ND	1.7894	ND	0.001
Bromomethane	ND	0.7	94.84	ND	2.7181	ND	0.002
Chloroethane	ND	0.7	64.52	ND	1.8472	ND	0.001
Trichtorofluoromethane	0.72	0.7	137.38	4,11	3.9332	0.0041	0.003
1,1-Dichloroethene	ND	0.7	96.95	ND	2,7757	ND	0.002
Methylene Chloride	ND	2.8	84.94	ND	9.7273	ND	0.009
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.4	187.38	ND	10.7293	ND	0.010
1,1-Dichloroethane	ND	0.7	98.96	ND	2,8332	ND	0.002
c-1,2-Dichloroethene	ND	0.7	96.94	ND	2.7754	ND	0.002
Chloroform	ND	0.7	119.38	ND	3,4178	ND	0.003
1,2-Dichloroethane	ND	0.7	98.96	ND	2.8332	ND	0.002
1,1,1-Trichloroethane	1.4	0.7	133.41	7.76	3,8195	0.0078	0.003
Benzene	0.71	0.7	78.12	2.31	2.2366	0.0023	0.002
Carbon Tetrachloride	ND	0.7	153.82	ND	4.4038	ND	0.004
1,2-Dichloropropane	ND	0.7	112,99	ND	3.2349	ND	0.003
c-1,3-Dichloropropene	ND	0.7	110.87	ND	3.1771	ND	0.003
t-1,3-Dichloropropene	ND	0.7	110.97	ND	3.1771	ND	0.003
1,1,2-Trichloroethane	ND	0.7	133.41	ND	3.8195	ND	0.003
Toluene	6.6	0.7	92.15	25.28	2.6382	0.0263	0.002
Trichloroethene	1.4	0.7	131.29	7.84	3.7588	0.0076	0,003
1,2-Dibromoethane	ND	0.7	187.88	ND	5.3790	ND	0.005
Tetrachloroethene	360	6.9	165,83	2481.25	46,7987	2.4812	0.046
Chlorobenzene	ND	0.7	112.56	ND	3.2226	ND	0.003
Ethylbenzene	67	0.7	106.17	295.65	3.0396	0.2957	0.003
p/m-Xylene	260	14	106.17	1147.31	60.7926	1.1473	0.060
Styrene	0.96	1.4	104,18	4.18	5.9642	0.0042	0.008
1.1.2.2-Tetrachloroethane	ND	0.7	169.87	ND	4,8634	ND	0.004
o-Xylene	110	6.9	106.17	485.40	29,9621	0.4854	0.030
1,3,5-Trimethylbenzene	2	0.7	120.2	9.99	3.4413	0.0100	0.003
1,2,4-Trimethylbenzene	5.2	0.7	120.2	25.98	3,4413	0.0260	0.003
Benzyl Chloride	ND	0.7	126.59	ND	3.6243	ND	0.003
1,3-Dichlorobenzene	ND	0.7	147.01	ND	4.2089	ND	0.004
1.4-Dichlorobenzene	ND	0.7	147.01	ND	4.2089	ND	0.004
1,2-Dichlorobenzene	ND	0.7	147.01	ND	4,2089	ND	0,004
1,2,4-Trichlorobenzene	ND	0.7	181.45	ND	5,1849	ND	0.005
Hexachloro-1,3-Butadiene	ND	0.7	260.72	ND	7.4644	ND	0.007

Notes: MW-molecular weight, RL-Reporting Limit, ND-None Detected

Table 2 Summary of Soil Gas Data (EPA Method TO-14A) Proposed East Valley Middle School No. 1 Laurel Canyon Boulevard and Hamlin Street Los Angeles, California

CLIENT: LAUSD

Project : Proposed East Valley Middle School No. 1

Sample Number: SG-15-20D			Results				
Sample Number: 5G-15-20D	Result	RL	MW	Result	RL	Result	RL
Compound	(ppb v/v)	(ppb)	(g)	(µg/m3)	(µg/m3)	(vg/t)	(//g/l)
Dichlorodifluoromethane	ND	2.8	120.91	ND	13.8465	ND	0.013
Chloromethane	ND	2.8	50.49	ND	5.7821	ND	0.005
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	ND	11	170,93	ND	76.9010	ND	0.076
Vinyl Chloride	ND	2.8	62.5	ND	7.1575	ND	0.007
Bromomethane	ND	2.6	94.94	ND	10.8725	ND	0.010
Chloroethane	ND	2.8	64.52	ND	7.3888	ND	0.007
Trichlorofluoromethane	ND	2.8	137.38	ND	15.7327	ND	0.015
1,1-Dichloroethene	ND	2.8	96.95	ND	11,1027	ND	0.011
Methylene Chloride	ND	11	64,94	ND	38.2143	ND	0.038
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	5.6	187.38	ND	42.9173	ND	0.042
1,1-Dichloroethane	ND	2.8	98.96	ND	11.3328	ND	0.011
c-1,2-Dichloroethene	ND	2.8	96,94	ND	11.1015	ND	0.011
Chloroform	ND	2.8	119.38	ND	13,6713	ND	0.013
1,2-Dichloroethane	ND	2.8	98,98	ND	11 3328	ND	0.011
1,1,1-Trichloroethane	ND	2.8	133.41	ND	15.2780	ND	0.015
Benzene	ND	2.8	78.12	ND	8.9463	ND	0.008
Carbon Tetrachloride	ND	2.8	153,82	ND	17.8154	ND	0.017
1,2-Dichloropropane	ND	2.8	112.99	ND	12,9396	ND	0.012
c-1,3-Dichloropropene	ND	2.8	110,97	ND	12,7082	ND	0.012
-1,3-Dichloropropene	ND	2,8	110.97	ND	12,7082	ND	0.012
1,1,2-Trichloroethane	ND	2.8	133.41	ND	15.2780	ND	0.015
Toluene	12	2.8	92,15	45.96	10,5530	0.0460	0.010
Trichloroethene	ND	2.8	131.29	ND	15,0353	ND	0.015
1,2-Dibromoethane	ND	2.8	187,88	ND	21,5159	ND	0.021
Tetrachloroethene	460	14	165.83	3170.48	94.9538	3.1705	0.095
Chlorobenzene	ND	2.8	112.56	ND	12.8903	ND	0.012
Ethylbenzene	44	2.8	106.17	194.18	12,1585	0.1942	0.012
p/m-Xylene	160	5.6	106.17	706.03	24,3171	0.7060	0.024
Styrene	ND	5.6	104.16	ND	23 8567	ND	0.023
1,1,2,2-Tetrachloroethane	ND	2.8	169.87	ND	19,4534	ND	0.019
o-Xylene	73	2.8	106.17	322.13	12.1585	0.3221	0.012
1,3,5-Trimethylbenzene	ND	2.8	120.2	ND	13.7652	ND	0.013
1,2,4-Trimethylbenzene	3	2.6	120.2	14.99	13.7652	0.0150	0.013
Benzyl Chlorida	ND	2.8	126.59	ND	14.4970	ND	0.014
1,3-Dichlorobenzene	ND	2.8	147.01	ND	16.8355	ND	0.016
1,4-Dichlorobenzene	ND	2.8	147.01	ND	16.8355	ND	0.016
1,2-Dichlorobenzene	ND	2.8	147.D1	ND	16.8355	NO	0.016
1,2,4-Trichlorobenzene	ND	2.8	181,45	ND	20,7796	ND	0.020
Hexachloro-1,3-Butadiene	ND	2.8	260.72	ND	29,8575	ND	0.029

Notes: MW-molecular weight, RL-Reporting Limit, ND-None Detected

Table 3
Summary of Soil Analytical Data - Metals
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled			SB-2-2 1/24/2002	SB-2-3 1/24/2002	SB-2-5 1/24/2002	SB-3-2 1/24/2002	SB-3-5 1/24/2002	SB-4-2 1/25/2002	SB-4-5 1/25/2002	SB-4-10 1/25/2002
Depth (feet below ground surfa	ce)		2	3	5	2	5	2	5	10
EPA 6010B Title 22 Metals	Unit	MDL	Conc.							
Antimony	mg/kg	0.75	ND	ND	ND	ND	ND	0.433J	ND	ND
Arsenic	mg/kg	0.75	ND	ND	ND	ND	ND	0.452J	0.943	0.305J
Barium	mg/kg	0.5	123	79.4	39.7	101	59.2	102	45.1	43.2
Beryllium	mg/kg	0.25	0.212J	0.205J	0.0793J	0.216J	0.129J	0.280	0.135J	0.140J
Cadmium	mg/kg	0.5	0.175J	0.0817J	ND	0.113J	0.0191J	0.462J	0.232J	0.227J
Chromium (Total)	mg/kg	0.25	9.67	8.07	2.62	9.62	4.59	11.3	5.56	8.25
Cobalt	mg/kg	0.25	8.16	6.27	2.38	7.81	4.32	8.78	4.33	4.99
Copper	mg/kg	0.5	12.4	8.49	3.55	10.3	5.08	10.7	5.13	4.98
Lead	mg/kg	0.5	5.98	1.99	0.828	2.36	1.23	3.01	1.40	1.27
Molybdenum	mg/kg	0.25	ND	ND	ND	ND	ND	0.0439J	ND	0.230J
Nickel	mg/kg	0.25	7.39	5.88	2.07	7.35	3.65	8.45	3.43	5.87
Selenium	mg/kg	0.75	0.305J	0.275J	ND	ND	ND	ND	ND	ND
Silver	mg/kg	0.25	ND							
Thallium	mg/kg	0.75	ND							
Vanadium	mg/kg	0.25	28.3	21.8	7.84	24.6	14.2	26.4	18.1	17.6
Zinc	mg/kg	1	47.0	30.3	15.2	41.7	21.9	45.6	23.3	20.0
EPA 7471A										
Mercury	mg/kg	0.0835	0.0235J	0.0193J	0.0287J	0.0190J	0.0373J	0.0159J	0.0152J	0.0179J

Table 3
Summary of Soil Analytical Data - Metals
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamiin Street
Los Angeles, California

Sample Identification Date Sampled			SB-4-15 1/25/2002	SB-5-5 1/25/2002	SB-5-10 1/25/2002	SB-5-15 1/25/2002	SB-6-5 1/25/2002	SB-6-9 1/25/2002	SB-7-5 1/25/2002	SB-7-5-D 1/25/2002
Depth (feet below ground surface	(e)		15	5	10	15	5	9	5	5
EPA 6010B Title 22 Metals	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Antimony	mg/kg	0.75	ND	0.344J	ND	ND	ND	ND	ND	ND
Arsenic	mg/kg	0.75	ND	0.802	0.444J	0.417J	0.254J	ND	0.244J	ND
Barium	mg/kg	0.5	43.6	97.2	52.0	62.0	95.4	83.6	92.5	96.9
Beryllium	mg/kg	0.25	0.106J	0.291	0.119J	0.164J	0.184J	0.141J	0.197J	0.258
Cadmium	mg/kg	0.5	0.181J	0.450J	0.172J	0.270J	0.606	0.613	0.508	0.652
Chromium (Total)	mg/kg	0.25	5.25	12.2	5.93	6.26	10.0	8.02	8.81	12.8
Cobalt	mg/kg	0.25	2.90	7.94	3.71	5.25	7.48	6.23	6.73	7.92
Copper	mg/kg	0.5	4.06	10.7	4.19	5.70	9.39	8.35	8.52	10.6
Lead	mg/kg	0.5	0.998	3.09	1.18	1,40	7.50	26.7	7.91	3.90
Molybdenum	mg/kg	0.25	0.280	ND	0.104J	ND	0.0634J	0.130J	ND	0.333
Nickel	mg/kg	0.25	3.04	8.41	4.05	4.43	7.33	5.98	6.71	10.6
Selenium	mg/kg	0.75	ND	ND	ND	ND	ND	ND	ND	ND
Silver	mg/kg	0.25	ND	ND	ND .	ND	ND	ND	ND	ND
Thallium	mg/kg	0.75	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	mg/kg	0.25	9.62	26.9	11.2	16.6	23.8	18.9	20.6	27.2
Zinc	mg/kg	1	19.6	39.2	18.8	26.4	53.3	202	35.9	41.2
EPA 7471A										
Mercury	mg/kg	0.0835	ND	0.0192J	0.0639J	0.0517J	0.0164J	0.0258J	0.0507J	0.0185J

Table 3
Summary of Soil Analytical Data - Metals
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground su	ırface)		SB-7-10 1/25/2002 10	SB-7-10-D 1/25/2002 10	SB-7-15 1/25/2002 15	SB-7-15-D 1/25/2002 15	SB-8-5 1/25/2002 5	SB-8-10 1/25/2002 10	SB-8-15 1/25/2002 15	SB-9-0.5 1/24/2002 0.5
EPA 6010B Title 22 Metals	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Antimony	mg/kg	0.75	ND.	ND	ND	ND	0.367J	0.234J	0.398J	ND
Arsenic	mg/kg	0.75	ND	ND	0.228J	ND	0.608J	1.75	0.695J	ND
Barium	mg/kg	0.5	48.1	72.5	58.5	54.2	49.8	143	83.2	77.8
Beryllium	mg/kg	0.25	0.117J	0.186J	0.110J	0.0809J	0.145J	0.583	0.247J	0.203J
Cadmium	mg/kg	0.5	0.405J	0.479J	0.354J	0.298J	0.202J	0.628	0.340J	0.0932J
Chromium (Total)	mg/kg	0.25	5.57	8.68	5.31	5.33	5.65	20.1	10.7	7.94
Cobalt	mg/kg	0.25	4.75	6.38	4.78	4.52	4.00	11.1	7.42	6.37
Copper	mg/kg	0.5	4.87	8.05	4.84	5.32	7.60	21.0	9.18	9.31
Lead	mg/kg	0.5	4.20	2.83	1.16	1.13	2.00	5.38	2.29	4.72
Molybdenum	mg/kg	0.25	ND	0.0343J	ND	ND	0.167J	0.110J	0.131J	0.0592J
Nickel	mg/kg	0.25	3.75	6.22	3.89	3.88	4.45	14.3	7.84	6.39
Selenium	mg/kg	0.75	ND	ND	ND	ND	ND	ND	ND	0.424J
Silver	mg/kg	0.25	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	mg/kg	0.75	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	mg/kg	0.25	18.4	20.6	15.7	13.7	13.5	38.0	21.9	20.3
Zinc	mg/kg	1	25.1	33.5	22.4	18.9	21.2	47.8	35.2	35.4
EPA 7471A										
Mercury	mg/kg	0.0835	0.0319J	0.0341J	0.0237J	0.0184J	0.0643J	0.0490J	0.0401J	0.0175J

Taule 3
Summary of Soil Analytical Data - Metals
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled			SB-9-7 1/24/2002	SB-10-0.5 1/23/2002	SB-10-7 1/23/2002	SB-10-10 1/23/2002	SB-10-12 1/23/2002	SB-11-0.5 1/23/2002	SB-11-7 1/23/2002	SB-11-10 1/23/2002
Depth (feet below ground su	rface)		7	0.5	7	10	12	0.5	7	10
EPA 6010B Title 22 Metals	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Antimony	mg/kg	0.75	ND	0.198J	0.23J	ND	ND	1.56	0.215J	ND
Arsenic	mg/kg	0.75	ND	ND	ND	ND	ND	ND	ND	0.133J
Barium	mg/kg	0.5	162	69.7	41.7	36.1	30.9	304	47.1	63.2
Beryllium	mg/kg	0.25	0.342	0.162J	0.0728J	0.0619J	0.0632J	0.161J	0.0835J	0.132J
Cadmium	mg/kg	0.5	0.219J	0.235J	0.0834J	0.0682J	0.0706J	0.522	0.125J	0.196J
Chromium (Total)	mg/kg	0.25	16.8	7.48	3.6	2.81	3.25	10.4	4.56	6.87
Cobalt	mg/kg	0.25	12.4	5.9	3.13	2.42	2.42	13.1	3.17	5.22
Copper	mg/kg	0.5	19.9	8.02	3.37	3.32	3.25	11.8	4.14	5.76
Lead	mg/kg	0.5	3.00	4.67	1.03	0.937	0.839	1.01	1.03	1.3
Molybdenum	mg/kg	0.25	ND	ND	ND	0.183J	0.0377J	ND	0.201J	ND
Nickel	mg/kg	0.25	12.5	5.62	2.65	2.17	2.49	7.7	3.34	4.79
Selenium	mg/kg	0.75	1.64	ND	ND	ND	ND	ND	0.405J	ND
Silver	mg/kg	0.25	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	mg/kg	0.75	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	mg/kg	0.25	40.0	19.2	9.24	6.74	7.52	49.8	10.2	17.6
Zinc	mg/kg	1	59.5	31.3	14.9	11.9	12	53	17.7	23.8
EPA 7471A										
Mercury	mg/kg	0.0835	0.0425J	0.245	ND	0.0182J	0.0187J	ND	0.0187J	ND

Table 3
Summary of Soil Analytical Data - Metals
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground su	rface)		SB-11-12 1/23/2002 12	SB-12-0.5 1/24/2002 0.5	SB-12-7 1/24/2002 7	SB-13-0.5 1/23/2002 0.5	SB-13-7 1/23/2002 7	SB-13-10 1/23/2002 10	SB-13-12 1/23/2002 12	SB-14-0.5 1/28/2002 0.5
EPA 6010B Title 22 Metals	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Antimony	mg/kg	0.75	ND	ND	ND	1.3	0.319J	0.381J	0.212J	ND
Arsenic	mg/kg	0.75	0.315J	ND	0.176J	0.43J	ND	ND	ND	ND
Barium	mg/kg	0.5	43	54.0	65.5	286	61.7	64	111	112
Beryllium	mg/kg	0.25	0.0952J	0.124J	0.146J	0.173J	0.141J	0.134J	0.284	0.292
Cadmium	mg/kg	0.5	0.103J	0.0249J	0.0314J	0.664	0.176J	0.169J	0.404J	0.317J
Chromium (Total)	mg/kg	0.25	4.72	4.55	5.23	10.7	6.83	6.16	14.1	12.4
Cobalt	mg/kg	0.25	3.37	4.22	4.62	12.9	5.45	5.2	9.23	8.67
Copper	mg/kg	0.5	4.09	5.20	8.83	13.4	5.94	5.92	12.9	13.9
Lead	mg/kg	0.5	1.21	1.73	1.35	18.3	1.46	1.28	2.73	16.9
Molybdenum	mg/kg	0.25	0.229J	ND	0.0648J	ND	0.0547J	0.0211J	0.0278J	0.101J
Nickel	mg/kg	0.25	2.98	3.68	4.09	8.43	5.07	5.19	10.2	9.53
Selenium	mg/kg	0.75	ND	0.436J	ND	ND	ND	ND	0.787	ND
Silver	mg/kg	0.25	ND	ND	ND	ND	ND	ND	ND	0.0427J
Thallium	mg/kg	0.75	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	mg/kg	0.25	10.5	13.0	14.9	46.2	16.7	16	29.5	26.8
Zinc	mg/kg	1	16.2	22.0	26.1	63.4	24.7	23.8	40.1	57.0
EPA 7471A										
Mercury	mg/kg	0.0835	0.0307J	0.0244J	0.0219J	ND	0.0183J	0.0142J	0.0133J	0.0699J

Table 3
Summary of Soil Analytical Data - Metals
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification			SB-14-7	SB-15-0.5	SB-15-7	SB-16-0.5	SB-16-7	SB-17-0.5	SB-17-7	SB-18-0.5
Date Sampled Depth (feet below ground su	ırface)		1/28/2002 7	1/24/2002 0.5	1/24/2002 7	1/24/2002 0.5	1/24/2002 7	1/24/2002 0.5	1/24/2002 7	1/24/2002 0.5
EPA 6010B Title 22 Metals	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Antimony	mg/kg	0.75	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	mg/kg	0.75	0.313J	ND	ND	ND	0.194J	ND	ND	0.391J
Barium	mg/kg	0.5	38.2	84.9	63.5	91.5	94.3	83.2	122	92.3
Beryllium	mg/kg	0.25	0.0795J	0.243J	0.161J	0.210J	0.228J	0.223J	0.228J	0.241J
Cadmium	mg/kg	0.5	0.0751J	0.112J	0.0662J	0.0948J	0.0827J	0.111J	0.108J	0.129J
Chromium (Total)	mg/kg	0.25	2.85	10.1	6.50	9.28	8.93	8.38	10.3	9.93
Cobalt	mg/kg	0.25	2.62	7.44	4.80	7.62	6.93	6.80	8.78	7.57
Copper	mg/kg	0.5	3.45	10.8	9.25	9.56	9.58	9.31	10.6	11.5
Lead	mg/kg	0.5	1.04	3.03	2.14	2.41	2.95	4.73	1.96	5.49
Molybdenum	mg/kg	0.25	0.0662J	0.0347J	0.0638J	ND	0.0587J	ND	ND	0.0522J
Nickel	mg/kg	0.25	2.51	7.72	4.87	7.07	7.01	6.62	7.73	7.69
Selenium	mg/kg	0.75	ND	ND	ND	ND	0.295J	ND	ND	0.548J
Silver	mg/kg	0.25	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	mg/kg	0.75	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	mg/kg	0.25	8.58	24.4	14.8	23.6	22.0	20.8	28.9	24.7
Zinc	mg/kg	1	19.9	38.7	26.3	39.2	37.4	36.4	41.7	42.0
EPA 7471A										
Mercury	mg/kg	0.0835	0.0353J	0.0424J	0.0179J	0.0211J	0.0427J	0.0154J	ND	0.0464J

Table 3
Summary of Soil Analytical Data - Metals
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground su	rface)		SB-18-7 1/24/2002 7	SB-19-0.5 1/28/2002 0.5	SB-19-7 1/28/2002 7	SB-20-0.5 1/23/2002 0.5	SB-20-7 1/23/2002 7	SB-20-10 1/23/2002 10	SB-20-12 1/23/2002 12	SB-21-0.5 1/25/2002 0.5
EPA 6010B Title 22 Metals	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Antimony	mg/kg	0.75	ND	ND	ND	0.72J	ND	ND	ND	ND
Arsenic	mg/kg	0.75	ND	ND	ND	ND	ND	ND	ND	0.454J
Barium	mg/kg	0.5	90.0	80.1	92.2	315	31.7	54.4	42.8	91.5
Beryllium	mg/kg	0.25	0.183J	0.203J	0.197J	0.142J	0.0681J	0.102J	0.0938J	0.284
Cadmium	mg/kg	0.5	0.0815J	0.275J	0.285J	0.518	0.0579J	0.119J	0.112J	0.506
Chromium (Total)	mg/kg	0.25	7.55	9.02	11.2	10.1	2.13	4.37	5.22	11.8
Cobalt	mg/kg	0.25	6.72	7.02	7.38	14.0	2.12	3.68	3.47	8.02
Copper	mg/kg	0.5	8.19	8.74	8.64	11	2.72	4.21	4.4	10.9
Lead	mg/kg	0.5	1.71	4.10	2.08	1.22	0.926	1.12	0.967	8.45
Molybdenum	mg/kg	0.25	ND	0.0691J	ND	ND	ND	ND	0.0409J	0.0457J
Nickel	mg/kg	0.25	5.81	6.99	8.04	8.07	1.81	3.57	3.74	8.40
Selenium	mg/kg	0.75	ND	ND	ND	ND	ND	ND	0.249J	ND
Silver	mg/kg	0.25	ND	ND	ND	0.0305J	ND	ND	ND	ND
Thallium	mg/kg	0.75	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	mg/kg	0.25	21.2	23.6	23.6	47.2	6.6	11.5	10.9	26.8
Zinc	mg/kg	1	32.8	39.3	37.9	52.6	10.8	16.2	16.4	50.1
EPA 7471A										
Mercury	mg/kg	0.0835	0.0580J	ND	ND	ND	ND]	0.0155J	ND	0.0130J

Table 3
Summary of Soil Analytical Data - Metals
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled	N.A.		SB-21-7 1/28/2002	SB-22-0.5 1/25/2002	SB-22-7 1/25/2002	SB-23-0.5 1/25/2002	SB-23-7 1/25/2002	SB-24-0.5 1/24/2002	SB-24-7 1/24/2002	SB-25-0.5 1/24/2002
Depth (feet below ground surf	face)		7	0.5	7	0.5	7	0.5	7	0.5
EPA 6010B Title 22 Metals	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Antimony	mg/kg	0.75	ND	0.383J	ND	0.207J	0.370J	ND	ND	ND
Arsenic	mg/kg	0.75	0.496J	0.728J	0.711J	0.797	0.476J	ND	ND	ND
Barium	mg/kg	0.5	81.4	49.3	73.9	69.8	65.6	83.4	78.5	79.3
Beryllium	mg/kg	0.25	0.186J	0.144J	0.211J	0.185J	0.201J	0.191J	0.166J	0.224J
Cadmium	mg/kg	0.5	0.502	0.209J	0.342J	0.409J	0.332J	0.0868J	0.347J	0.269J
Chromium (Total)	mg/kg	0.25	18.1	5.87	8.62	9.40	7.98	7.87	6.95	45.6
Cobalt	mg/kg	0.25	5.92	4.40	6.39	5.86	5.95	6.29	5.98	13.3
Copper	mg/kg	0.5	9.90	5.59	7.94	9.14	7.59	8.66	8.28	15.0
Lead	mg/kg	0.5	39.3	3.15	7.20	17.0	3.34	5.83	12.5	7.29
Molybdenum	mg/kg	0.25	1.53	0.169J	0.0209J	0.0716J	0.0409J	0.0516J	0.0657J	ND
Nickel	mg/kg	0.25	6.77	4.55	6.11	6.37	5.68	6.07	5.91	17.9
Selenium	mg/kg	0.75	ND	ND	ND	ND	ND	ND	0.229J	ND
Silver	mg/kg	0.25	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	mg/kg	0.75	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	mg/kg	0.25	22.0	13.5	21.1	19.7	20.4	21.2	19,5	64.6
Zinc	mg/kg	-4-	38.1	29.1	35.7	43.4	29.8	34.6	153	53.2
EPA 7471A										
Mercury	mg/kg	0.0835	ND	0.0456J	0.0416J	0.0493J	0.0227J	0.0245J	0.0185J	0.0329J

Table 3
Summary of Soil Analytical Data - Metals
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled			SB-25-7 1/24/2002	SB-26-0.5 1/24/2002	SB-26-7 1/24/2002	SB-28-2 1/25/2002	SB-28-7 1/25/2002	SB-29-2 2/1/2002	SB-29-7 2/1/2002	SB-31-0.5 1/23/2002
Depth (feet below ground su	ırface)		7	0.5	7	2	7	2	7	0.5
EPA 6010B Title 22 Metals	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Antimony	mg/kg	0.75	ND	ND	ND	0.499J	0.376J	0.520J	0.342J	0.229J
Arsenic	mg/kg	0.75	ND	0.142J	ND	0.372J	0.317J	ND	ND	0.142J
Barium	mg/kg	0.5	57.2	199	53.2	85.6	114	67.6	51.3	76.7
Beryllium	mg/kg	0.25	0.145J	0.210J	0.138J	0.290	0.414	0.220J	0.142J	0.207J
Cadmium	mg/kg	0.5	0.0628J	0.713	0.0459J	0.810	1.25	0.172J	0.120J	0.283J
Chromium (Total)	mg/kg	0.25	6.92	12.4	5.40	9.55	14.1	8.20	4.53	8.62
Cobalt	mg/kg	0.25	5.20	9.69	4.61	7.43	11.0	6.87	3.85	6.6
Copper	mg/kg	0.5	6.45	19.4	6.02	51.4	15.5	6.91	3.86	9.18
Lead	mg/kg	0.5	16.2	17.4	4.69	8.50	3.92	1.99	1.60	5.67
Molybdenum	mg/kg	0.25	ND	0.415	ND	1.58	ND	0.0441J	ND	0.0518J
Nickel	mg/kg	0.25	4.78	9.49	4.11	7.13	16.1	5.93	3.53	6.54
Selenium	mg/kg	0.75	0.402J	ND	ND	ND	ND	ND	ND	ND
Silver	mg/kg	0.25	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	mg/kg	0.75	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	mg/kg	0.25	17.6	33.8	15.5	23.9	32.7	17.5	11.7	20.6
Zinc	mg/kg		27.7	78.7	26.7	47.9	112	29.7	19.4	35.4
EPA 7471A										
Mercury	mg/kg	0.0835	0.0179J	0.154	0.0369J	0.0469J	0.0609J	0.0222J	0.0225J	0.0181J

Table 3
Summary of Soil Analytical Data - Metals
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled			SB-31-7 1/23/2002	SB-31-10 1/23/2002	SB-31-12 1/23/2002	SB-32-5 1/25/2002	SB-32-5-D 1/25/2002	SB-32-10 1/25/2002	SB-32-10-D 1/25/2002	SB-32-15 1/25/2002
Depth (feet below ground surfa	ace)		7	10	12	5	5	10	10	15
EPA 6010B Title 22 Metals	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Antimony	mg/kg	0.75	ND	0.297J	0.336J	ND	ND	ND	ND	ND
Arsenic	mg/kg	0.75	ND	ND	ND	1.00	1.03	ND	ND	0.325J
Barium	mg/kg	0.5	45	60.1	91.4	77.2	80.7	142	126	61.8
Beryllium	mg/kg	0.25	0.102J	0.126J	0.279	0.182J	0.224J	0.455	0.407	0.156J
Cadmium	mg/kg	0.5	0.12J	0.168J	0.349J	0.285J	0.375J	0.649	0.631	0.199J
Chromium (Total)	mg/kg	0.25	3,17	6.89	13.5	7.38	9.18	13.6	13.8	4.91
Cobalt	mg/kg	0.25	3.4	5.04	8.73	5.44	6,68	11.0	10.6	4.46
Copper	mg/kg	0.5	3.88	5.54	12.2	7.33	8.39	18.3	16.2	4.68
Lead	mg/kg	0.5	1.17	1.35	2.55	2.29	3.30	4.01	3.75	1.30
Molybdenum	mg/kg	0.25	ND	0.0233J	0.0436J	0.0954J	0.182J	0.0501J	ND	ND
Nickel	mg/kg	0.25	2.66	4.75	9.91	5.34	7.34	9.79	10.0	3.88
Selenium	mg/kg	0.75	ND	ND	ND	ND	ND	ND	ND I	ND
Silver	mg/kg	0.25	0.111J	ND	ND	ND	ND	ND	ND	ND
Thallium	mg/kg	0.75	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	mg/kg	0.25	9.86	15.4	27.2	16.7	21.2	35.5	33.3	12.7
Zinc	mg/kg	1	16.3	23.0	38.5	27.6	35.8	56.0	52.1	26.1
EPA 7471A										
Mercury	mg/kg	0.0835	0.0669J	0.0149J	0.0166J	ND	0.0516J	0.0294J	0.0327J	ND

Table 3
Summary of Soil Analytical Data - Metals
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground s	surface)		SB-32-15-D 1/25/2002 15	SB-33-5 1/25/2002 5	SB-33-10 1/25/2002 10	SB-33-15 1/25/2002 15	SB-34-20 1/28/2002 20	SB-34-30 1/28/2002 30
EPA 6010B Title 22 Metals	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Antimony	mg/kg	0.75	0.338J	ND	ND	ND	ND	ND
Arsenic	mg/kg	0.75	0.804	ND	0.451J	ND	ND	ND
Barium	mg/kg	0.5	63.1	134	67.8	59.3	73.5	145
Beryllium	mg/kg	0.25	0.166J	0.415	0.131J	0.123J	0.161J	0.161J
Cadmium	mg/kg	0.5	0.309J	0.941	0.364J	0.343J	0.203J	0.493J
Chromium (Total)	mg/kg	0.25	8.35	16.6	6.63	6.08	12.7	13.5
Cobalt	mg/kg	0.25	5.93	11.8	5.21	4.73	5.70	10.1
Copper	mg/kg	0.5	6.50	17.3	5.50	4.96	8.37	15.8
Lead	mg/kg	0.5	2.18	3.94	1.42	1.32	2.50	1.34
Molybdenum	mg/kg	0.25	0.0465J	0.116J	0.0322J	ND	0.964	0.0785J
Nickel	mg/kg	0.25	5.60	11.9	4.84	4.26	6.39	9.33
Selenium	mg/kg	0.75	ND	ND	ND	ND	ND	ND
Silver	mg/kg	0.25	ND	ND	ND	ND	ND	ND
Thallium	mg/kg	0.75	ND	ND	ND	ND	ND	ND
Vanadium	mg/kg	0.25	19.1	37.6	16.2	15.3	18.4	25.0
Zinc	mg/kg	1	28.4	55.5	23.6	23.2	30.5	38.6
EPA 7471A								
Mercury	mg/kg	0.0835	ND	0.0289J	ND	0.0173J	ND	ND

Table 4
Summary of Soil Analytical Data - TPH
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground s	urface)		SB-4-2 1/25/2002 2	SB-4-5 1/25/2002 5	SB-4-10 1/25/2002 10	SB-4-15 1/25/2002 15	SB-5-5 1/25/2002 5	SB-5-10 1/25/2002 10	SB-5-15 1/25/2002 15	SB-6-5 1/25/2002 5	SB-6-9 1/25/2002 9	SB-7-5 1/25/2002 5	S8-7-10 1/25/2002 10	SB-7-15 1/25/2002 15
EPA 8015M TPH - Carbon Range	Unit	MOL	Conc.	Conc.	Conc.	Conc.	Cone.	Canc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
C7	mg/kg		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CB	mg/kg		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C9-C10	mg/kg		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C11-C12	mg/kg		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C13-C14	mg/kg		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C15-C16	mg/kg		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C17-C18	mg/kg		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C19-C20	mg/kg		ND	ND	ND	ND	ND	ND	ND	ND.	2.7	ND	ND	ND
C21-C22	mg/kg		ND	ND	ND	ND	ND	ND	ND	0.81	11	ND	ND	ND
C23-C24	mg/kg		ND	ND	ND	ND	ND	ND	ND	1.8	24	ND	ND	ND
C25-C28	mg/kg		ND	ND	ND	ND	ND	ND	ND	9.4	100	ND	ND	ND
C29-C32	mg/kg		ND	ND	ND	ND	ND	ND	ND	19	150	ND	ND	ND
C33-C36	mg/kg		ND	ND	ND	ND	ND	ND	ND	12	84	ND	ND	ND
C7-C36 Total	mg/kg	5.0	ND	ND	ND	ND	ND	ND	ND	43	370	ND	ND	ND

Sample Identification Date Sampled Depth (feet below ground se	urface)		SB-8-5 1/25/2002 5	SB-8-5-D 1/25/2002 5	SB-8-10 1/25/2002 10	SB-8-10-D 1/25/2002 10	SB-8-15 1/25/2002 15	SB-29-2 2/1/2002 2	SB-29-7 2/1/2002 7	SB-32-5 1/25/2002 5	SB-32-10 1/25/2002 10	SB-32-15 1/25/2002 15	SB-33-5 1/25/2002 5	SB-33-10 1/25/2002 10	SB-33-15 1/25/2002 15
EPA 8015M TPH - Carbon Range	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
C7	mg/kg		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C8	mg/kg		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C9-C10	mg/kg		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C11-C12	mg/kg		ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C13-C14	mg/kg		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C15-C16	mg/kg		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	- ND	ND	ND
C17-C18	mg/kg		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C19-C20	mg/kg		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C21-C22	mg/kg		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C23-C24	mg/kg		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C25-C28	mg/kg		ND	ND	ND	ND	ND	ND	ND	ND	ND	DN	ND	ND	ND
C29-C32	mg/kg		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C33-C36	mg/kg		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C7-C36 Total	mg/kg	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 5
Summary of Soil Analytical Data - Pesticides
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground sur	rface)		SB-1-1 1/25/2002 1	SB-1-3 1/25/2002 3	SB-3-2 1/24/2002 2	SB-3-5 1/24/2002 3	SB-21-0.5 1/25/2002 0.5	SB-21-7 1/28/2002 7	SB-30-1 1/25/2002 1	SB-30-3 1/25/2002 3	SB-30-3-D 1/25/2002 3	SB-30-5 1/25/2002 5
EPA 8081A Pesticides	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Alpha-BHC	μg/kg	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	μg/kg	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	μg/kg	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	μg/kg	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	μg/kg	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	μg/kg	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	μg/kg	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	μg/kg	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	µg/kg	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	μg/kg	5.0	2.1	ND	ND	ND	3.4	ND	ND	ND	ND	ND
Endrin	μg/kg	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	μg/kg	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	μg/kg	5.0	ND	ND	ND	ND	3.1	ND	ND	ND	ND	ND
Endosulfan II	μg/kg	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4.4'-DDT	μg/kg	5.0	2.9	ND	ND	ND .	19	ND	3.6	3.7	ND	ND
Endosulfan Sulfate	μg/kg	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	μg/kg	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	μg/kg	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	μg/kg	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin Ketone	μg/kg	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 6
Summary of Soil Analytical Data - PCBs
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground su	rface)		SB-1-1 1/25/2002 1	SB-1-3 1/25/2002 3	SB-1-3-D 1/25/2002 3	SB-2-2 1/24/2002 2	SB-2-3 1/24/2002 3	SB-2-5 1/24/2002 5	SB-9-0.5 1/24/2002 0.5	SB-9-7 1/24/2002 7
EPA 8082 PCBs	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Aroclor-1016	μg/kg	50	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1221	μg/kg	50	ND.	ND	ND	ND	ND	ND	ND	ND
Aroclor-1232	μg/kg	50	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1242	μg/kg	50	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1248	μg/kg	50	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	μg/kg	50	ND	ND	ND	ND	ND	ND	ND	ND -
Aroclor-1260	μg/kg	50	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1262	μg/kg	50	ND	ND	ND	ND	ND	ND	ND	ND

Sample Identification Date Sampled Depth (feat below ground surface)			SB-14-0.5 1/28/2002 0.5	SB-14-7 1/28/2002 7	SB-21-0.5 1/25/2002 0.5	SB-21-7 1/28/2002 7	SB-25-0.5 1/24/2002 0.5	SB-25-7 1/24/2002 7	SB-34-30 1/28/2002 30
EPA 8082 PCBs	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Aroclor-1016	μg/kg	50	ND	ND	ND	ND	ND	ND	ND
Aroclor-1221	μg/kg	50	ND	ND	ND	ND	ND	ND	ND
Aroclor-1232	μg/kg	50	ND	ND	ND	ND	ND	ND	ND
Aroclor-1242	μg/kg	50	ND	ND	ND	ND	ND	ND	ND
Aroclor-1248	μg/kg	50	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	μg/kg	50	ND	ND	ND	ND	ND	ND	ND
Aroclor-1260	μg/kg	50	ND	ND	ND	ND	ND	ND	ND
Arocior-1262	μg/kg	50	ND	ND	ND	ND	ND	ND	ND

Table 7
Summary of Soil Analytical Data - SVOCs
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground surface	e)		SB-2-2 1/24/2002 2	SB-2-3 1/24/2002 3	S8-2-5 1/24/2002 5	SB-3-2 1/24/2002 2	SB-3-5 1/24/2002 5	SB-4-2 1/25/2002 2	SB-4-5 1/25/2002 5	SB-4-10 1/25/2002 10
		MDL	Conc.							
EPA 8270C				1025	100000	0.5000		224.700		4.71.4.
Semi-Volatile Organics	Unit									
N-Nitrosodimethylamine	mg/kg	0.5	ND							
Aniline	mg/kg	0.5	ND							
Phenol	mg/kg	0.5	ND							
Bis(2-Chloroethyl) Ether	mg/kg	2.5	ND							
2-Chlorophenol	mg/kg	0.5	ND							
1,3-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND.	ND
1,4-Dichlorobenzene	mg/kg	0.5	ND							
Benzyl Alcohol	mg/kg	0.5	ND							
1,2-Dichlorobenzene	mg/kg	0.5	ND							
2-Methylphenol	mg/kg	0.5	ND							
Bis(2-Chloroisopropyl) Ether	mg/kg	0.5	ND							
3/4-Methylphenol	mg/kg	0.5	ND							
N-Nitroso-di-n-propylamine	mg/kg	0.5	ND							
Hexachloroethane	mg/kg	0.5	ND							
Nitrobenzene	mg/kg	2.5	ND.	ND						
Isophorone	mg/kg	0.5	ND							
2-Nitrophenol	mg/kg	0.5	ND							
2.4-Dimethylphenol	mg/kg	0.5	ND							
Benzoic Acid	mg/kg	2.5	ND							
Bis(2-Chloroethoxy) Methane	mg/kg	0.5	ND							
2.4-Dichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND.	ND
1.2.4-Trichlorobenzene	mg/kg	0.5	ND							
Naphthalene	mg/kg	0.4	ND							
4-Chloroaniline	mg/kg	0.5	ND							
Hexachloro-1.3-Butadiene	mg/kg	0.5	ND							
4-Chloro-3-Methylphenol	mg/kg	0.5	ND							
2-Methylnaphthalene	mg/kg	0.4	ND							
1-Methylnaphthalene	mg/kg	0.4	ND							
Hexachlorocyclopentadiene	mg/kg	1.5	ND							
2,4,5-Trichlorophenol	mg/kg	0.5	ND							
2-Chloronaphthalene	mg/kg	0.5		ND						
2-Nitroaniline	mg/kg	0.5	ND							
Dimethyl Phthalate	mg/kg	0.5	ND							
Acenaphthylene	mg/kg	0.4	ND							
3-Nitroaniline	mg/kg	0.5	ND							
Acenaphthene	mg/kg	0.4	ND							
2,4-Dinitrophenol	mg/kg	2.5		ND						

Table 7
Summary of Soil Analytical Data - SVOCs
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground surfac	e)		SB-2-2 1/24/2002 2	SB-2-3 1/24/2002 3	SB-2-5 1/24/2002 5	SB-3-2 1/24/2002 2	SB-3-5 1/24/2002 5	SB-4-2 1/25/2002 2	SB-4-5 1/25/2002 5	SB-4-10 1/25/2002 10
EPA 8270C Semi-Volatile Organics(cont.)	Unit	MDL	Conc.							
4-Nitrophenol	mg/kg	0.5	ND							
Dibenzofuran	mg/kg	0.5	ND							
2.4-Dinitrotoluene	mg/kg	0.5	ND							
2.6-Dinitrotoluene	mg/kg	0.5	ND							
Diethyl Phthalate	mg/kg	0.5	ND							
4-Chlorophenyl-Phenyl Ether	mg/kg	0.5	ND							
Fluorene	mg/kg	0.4	ND							
4-Nitroaniline	mg/kg	0.5	ND							
Azobenzene	mg/kg	0.5	ND							
4,6-Dinitro-2-Methylphenol	mg/kg	2.5	ND							
N-Nitrosodiphenylamine	mg/kg	0.5	ND							
2,4,6-Trichlorophenol	mg/kg	0.5	ND							
4-Bromophenyl-Phenyl Ether	mg/kg	0.5	ND							
Hexachlorobenzene	mg/kg	0.5	ND							
Pentachlorophenol	mg/kg	2.5	ND							
Phenanthrene	mg/kg	0.4	ND							
Anthracene	mg/kg	0.4	ND							
Di-n-Butyl Phthalate	mg/kg	0.5	ND							
Fluoranthene	mg/kg	0.4	ND							
Benzidine	mg/kg	10	ND							
Pyrene	mg/kg	0.4	ND							
Pyridine	mg/kg	0.5	ND							
Butyl Benzyl Phthalate	mg/kg	0.5	ND							
3,3'-Dichlorobenzidine	mg/kg	0.5	ND							
Benzo (a) Anthracene	mg/kg	0.4	ND							
Bis(2-Ethylhexyl) Phthalate	mg/kg	0.5	ND							
Chrysene	mg/kg	0.4	ND							
Di-n-Octyl Phthalate	mg/kg	0.5	ND							
Benzo (k) Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND.	ND	ND
Benzo (b) Fluoranthene	mg/kg	0,4	ND							
Benzo (a) Pyrene	mg/kg	0.35	ND							
Indena (1,2,3-c,d) Pyrene	mg/kg	0.4	ND							
Dibenz (a,h) Anthracene	mg/kg	0.4	ND							
Benzo (g,h,i) Perylene	mg/kg	0.4	ND	ND	ND	ND	ND	ND.	ND	ND

Table 7
Summary of Soil Analytical Data - SVOCs
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamfin Street
Los Angeles, California

Sample Identification Date Sampled			SB-4-15 1/25/2002	SB-5-5 1/25/2002	SB-5-10 1/25/2002	SB-5-15 1/25/2002	SB-6-5 1/25/2002	SB-6-9 1/25/2002	SB-7-5 1/25/2002	SB-7-5-D 1/25/2002
Depth (feet below ground surface	9)	-	15	5	10	5	5	9	5	5
		MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
EPA 8270C	111.11	40.1								
Semi-Volatile Organics	Unit	4.5	NE	ND	MP	ND	ND	ND	6105	ND
N-Nitrosodimethylamine	mg/kg	0.5	ND	ND	ND				ND	
Aniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroethyl) Ether	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl Alcohol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chlorolsopropyi) Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
3/4-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	mg/kg	0,5	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	mg/kg	2.5	ND	ND	ND	ND ND	ND	ND	ND	ND
Isophorone	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic Acid	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroethoxy) Methane	mg/kg	0.5	ND	ND	ND	ND	ND .	ND	ND	ND
2,4-Dichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloro-1,3-Butadiene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalena	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
I-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	mg/kg	1.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	mg/kg	0.5	ND	ND.	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
2.4-Dinitrophenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND

Table 7
Summary of Soil Analytical Data - SVOCs
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled			SB-4-15 1/25/2002	SB-5-5 1/25/2002	SB-5-10 1/25/2002	SB-5-15 1/25/2002	SB-6-5 1/25/2002	SB-6-9 1/25/2002	SB-7-5 1/25/2002	SB-7-5-D 1/25/2002
Depth (feet below ground surface	e)		15	5	10	5	5	9	5	5
		MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
EPA 8270C					4.00			1		
Semi-Volatile Organics(cont.)	Unit		C/D	100	105	No.	1/6	MB	115	- 100
4-Nitrophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	mg/kg	0.5	ND	ND ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	mg/kg	0.5	ND		ND ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	mg/kg	0.5	ND	ND .		ND	ND	ND	ND	ND
Diethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-Phenyl Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Azobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-Methylphenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	mg/kg	0,5	ND	ND	ND	ND	ND	ND	ND	ND
2.4,6-Trichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-Phenyl Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-Butyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	mg/kg	10	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Pyridine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Butyl Benzyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a) Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl) Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-Octyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (k) Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (b) Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a) Pyrene	mg/kg	0.35	מא	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) Pyrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz (a,h) Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (g.h.i) Perylene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND

Table 7
Summary of Soil Analytical Data - SVOCs
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground surface)			SB-7-10 1/25/2002 10	SB-7-10-D 1/25/2002 10	SB-7-15 1/25/2002 15	SB-7-15-D 1/25/2002 15	SB-8-5 1/25/2002 5	SB-8-10 1/25/2002 10	SB-8-15 1/25/2002 15	SB-9-0.5 1/24/2002 0.5
EPA 8270C		MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Semi-Volatile Organics	Unit		1					100		
N-Nitrosodimethylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Aniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroethyl) Ether	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	mg/kg	0.5	ND	ND .	ND	ND	ND	ND	ND	ND
Benzyl Alcohol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroisopropyl) Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
3/4-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND .	ND	ND
Hexachloroethane	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic Acid	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroethoxy) Methane	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2.4-Dichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloro-1,3-Butadiene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	mg/kg	1.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	mg/kg	0.4	ND	ND	ND	ND 1	ND	ND	ND	ND
2,4-Dinitrophenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND

Table 7
Summary of Soil Analytical Data – SVOCs
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground surface)			SB-7-10 1/25/2002 10	SB-7-10-D 1/25/2002 10	SB-7-15 1/25/2002 15	SB-7-15-D 1/25/2002 15	SB-8-5 1/25/2002 5	SB-8-10 1/25/2002 10	SB-8-15 1/25/2002 15	SB-9-0.5 1/24/2002 0.5
EPA 8270C Semi-Volatile Organics(cont.)	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
4-Nitrophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	mg/kg	0.5	ND	ND	ND.	ND	ND	ND	ND	ND
Diethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-Phenyl Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Azobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-Methylphenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	mg/kg	0.5	ND.	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-Phenyl Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-Butyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	mg/kg	10	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Pyridine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Butyl Benzyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
3.3'-Dichlorobenzidine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a) Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl) Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-Octyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (k) Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (b) Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a) Pyrene	mg/kg	0.35	ND	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) Pyrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz (a,h) Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (g,h,i) Perylene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND

Table 7
Summary of Soil Analytical Data - SVOCs
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground surfac	e)		SB-9-7 1/24/2002 7	SB-10-0.5 1/23/2002 0.5	SB-10-7 1/23/2002 7	SB-11-0.5 1/23/2002 0.5	SB-11-7 1/23/2002 7	SB-12-0.5 1/24/2002 0.5	SB-12-7 1/24/2002 7	SB-13-0.5 1/23/2002 0.5
EPA 8270C		MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Semi-Volatile Organics	Unit	0.5	ND	ND	ND	ND	NES	NO	APP	ND.
N-Nitrosodimethylamine Aniline	mg/kg mg/kg	0.5	ND	ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND
Phenol	mg/kg	0.5	ND	ND	ND ND	ND	ND ND	ND	ND	ND
Bis(2-Chloroethyl) Ether		2.5	ND	ND	ND	ND	ND ND	ND	ND	ND
	mg/kg	0.5	ND	ND	ND	ND	ND I	ND	ND	ND
2-Chlorophenol	mg/kg		ND	ND	ND					
1,3-Dichlorobenzene	mg/kg	0.5		CAN COLOR OF THE PARTY OF THE P		ND	ND	ND	ND	ND
1,4-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl Alcohol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroisopropyl) Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
3/4-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	mg/kg	0.5	ND	ND:	ND	ND	ND	ND	ND	ND
2-Nitrophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzolc Acid	mg/kg	2.5	ND	ND	ND.	ND	ND	ND	ND	ND
Bis(2-Chloroethoxy) Methane	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloro-1,3-Butadiene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	mg/kg	1.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichiorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND

Taure 7
Summary of Soil Analytical Data - SVOCs
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground surfac	e)		SB-9-7 1/24/2002 7	SB-10-0.5 1/23/2002 0.5	SB-10-7 1/23/2002 7	SB-11-0.5 1/23/2002 0.5	SB-11-7 1/23/2002 7	SB-12-0.5 1/24/2002 0.5	SB-12-7 1/24/2002 7	SB-13-0.5 1/23/2002 0.5
EPA 8270C Semi-Volatile Organics(cont.)	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
4-Nitrophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2.4-Dinitrotoluene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2.6-Dinitrotoluene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-Phenyl Ether	mg/kg	0.5	ND	ND	ND	ND	ND I	ND	ND	ND
Fluorene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Azobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4.6-Dinitro-2-Methylphenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-Phenyl Ether	mg/kg	0.5	ND	ND -	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND I	ND	ND	ND
Di-n-Butyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	mg/kg	10	ND	ND	ND	ND	ND I	ND	ND	ND
Pyrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Pyridine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Butyl Benzyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a) Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl) Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-Octyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (k) Fluoranthene	mg/kg	0.4	ND	ND	ND .	ND	ND	ND	ND	ND
Benzo (b) Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a) Pyrene	mg/kg	0.35	ND	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) Pyrene	mg/kg	0.4	ND	ND	ND	ND	ND I	ND	ND	ND
Dibenz (a,h) Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (g,h,i) Perylene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND

Table 7
Summary of Soil Analytical Data - SVOCs
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground surface	e)		SB-13-7 1/23/2002 7	SB-14-0.5 1/28/2002 0.5	SB-14-7 1/28/2002 7	SB-15-0.5 1/24/2002 0.5	SB-15-7 1/24/2002 7	SB-16-0.5 1/24/2002 0.5	SB-16-7 1/24/2002 7	SB-17-0.5 1/24/2003 0.5
EPA 8270C		MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Semi-Volatile Organics	Unit		5 - 1						//	
N-Nitrosodimethylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Aniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroethyl) Ether	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1.3-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1.4-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl Alcohol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	mg/kg	0.5	ND	ND	ND	ND I	ND	ND	ND	ND
Bis(2-Chloroisopropyl) Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
3/4-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	mg/kg	0.5	ND I	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
sophorone	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic Acid	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroethoxy) Methane	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	mg/kg	0.5	ND	ND	ND	MD	ND	ND	ND	ND
Naphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
lexachloro-1,3-Butadiene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Chioro-3-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	mg/kg	1.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND.	ND
2-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	mg/kg	0.5	ND I	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND

Table 7
Summary of Soil Analytical Data - SVOCs
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground surface	e)		SB-13-7 1/23/2002 7	SB-14-0.5 1/28/2002 0.5	SB-14-7 1/28/2002 7	SB-15-0.5 1/24/2002 0.5	SB-15-7 1/24/2002 7	SB-16-0.5 1/24/2002 0.5	SB-16-7 1/24/2002 7	SB-17-0.5 1/24/2002 0.5
EPA 8270C Semi-Volatile Organics(cont.)	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
4-Nitrophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2.6-Dinitrotoluene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-Phenyl Ether	mg/kg	0.5	ND I	ND	ND	ND	ND	ND	ND	ND
Fluorene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Azobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-Methylphenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-Phenyl Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-Butyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	mg/kg	10	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Pyridine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Butyl Benzyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a) Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND:	ND	ND
Bis(2-Ethylhexyl) Phthalate	mg/kg	0.5	ND	ND	ND.	ND	ND	ND	ND	ND
Chrysene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-Octyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (k) Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (b) Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a) Pyrene	mg/kg	0.35	ND	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) Pyrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz (a,h) Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (g,h,i) Perylene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND

Table 7
Summary of Soil Analytical Data - SVOCs
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground surfac	e)		SB-17-7 1/24/2002 7	SB-18-0.5 1/24/2002 0.5	SB-18-7 1/24/2002 7	SB-19-0.5 1/28/2002 0.5	SB-19-7 1/28/2002 7	SB-20-0.5 1/23/2002 0.5	SB-20-7 1/23/2002 7	SB-21-0.5 1/25/2002 0.5
EPA 8270C	10.2	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Semi-Volatile Organics	Unit	0.5	NE	NID	KIPS .	MD	AUD.	110	8000	1.05
N-Nitrosodimethylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Aniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	mg/kg	0.5	ND ND	ND	ND	ND ND	ND ND	ND ND	ND	ND
Bis(2-Chloroethyl) Ether	mg/kg	2.5		ND	ND			ND	- ND	ND
2-Chlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	- 4 - Page	ND	ND
1,3-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl Alcohol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroisopropyl) Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
3/4-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	mg/kg	0.5	ND	ND	ND	NO	ND	ND	ND	ND
Nitrobenzene	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic Acid	mg/kg	2.5	ND	ND	ND	ND	ND	NO	ND	ND
Bis(2-Chloroethoxy) Methane	mg/kg	0.5	ND	ND.	ND	ND	ND	ND	ND	ND
2.4-Dichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloro-1,3-Butadiene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	mg/kg	1.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	mg/kg	0.5	ND	ND.	ND	ND	ND	NO	ND	ND
2-Chloronaphthalene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Agenaphthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
2.4-Dinitrophenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND

Table 7
Summary of Soit Analytical Data - SVOCs
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground surface	9)		SB-17-7 1/24/2002 7	SB-18-0.5 1/24/2002 0.5	SB-18-7 1/24/2002 7	SB-19-0.5 1/28/2002 0.5	SB-19-7 1/28/2002 7	SB-20-0.5 1/23/2002 0.5	SB-20-7 1/23/2002 7	SB-21-0.5 1/25/2002 0.5
EPA 8270C		MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Semi-Volatile Organics(cont.)	Unit									
4-Nitrophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-Phenyl Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Azobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-Methylphenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-Phenyl Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	1.1
Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	0.32J
Di-n-Butyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	9.5
Benzidine	mg/kg	10	ND	ND	ND.	ND	ND	ND	ND	ND
Pyrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	8.5
Pyridine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Butyl Benzyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a) Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	8.2
Bis(2-Ethylhexyl) Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	8.1
Di-n-Octyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (k) Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	7.5
Benzo (b) Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	7.4
Benzo (a) Pyrene	mg/kg	0.35	ND	ND	ND	ND	ND	ND	ND	7.5
Indeno (1,2,3-c,d) Pyrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	2.6
Dibenz (a,h) Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	0.82
Benzo (g.h.i) Perylene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	2.2

Table 7
Summary of Soll Analytical Data - SVOCs
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled			1/25/2002	SB-21-0.5-H 1/25/2002	SB-21-7 1/28/2002	SB-22-0.5 1/25/2002	SB-22-7 1/25/2002	SB-23-0.5 1/25/2002	SB-23-7 1/25/2002	SB-24-0.5 1/24/2002
Depth (feet below ground surface	e)		0.5	0.5	7	0.5	7	0.5	7	0,5
20.00		MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
EPA 8270C						/	100000000000000000000000000000000000000			
Semi-Volatile Organics	Unit						- 18 41			
N-Nitrosodimethylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Aniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroethyl) Ether	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl Alcohol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroisopropyl) Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
3/4-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachioroethane	mg/kg	0.5	ND	ND I	ND	ND	ND	ND	ND	ND
Nitrobenzene	mg/kg	2.5	ND	ND I	ND	ND	ND	ND	ND	ND
Isophorone	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	mg/kg	0.5	ND I	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic Acid	mg/kg	2.5	ND.	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroethoxy) Methane	mg/kg	0.5	ND	ND I	ND	ND	ND	ND	ND	ND
2.4-Dichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1.2.4-Trichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	mg/kg	0.5	ND	ND I	ND	ND	ND	ND	ND	ND
Hexachloro-1,3-Butadiene	mg/kg	0.5	ND	ND I	ND	ND	ND	ND	ND	ND
4-Chloro-3-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	mg/kg	1.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
2.4-Dinitrophenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND

Table 7
Summary of Soil Analytical Data - SVOCs
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground surface	e)		SB-21-0.5-R 1/25/2002 0.5	SB-21-0.5-H 1/25/2002 0.5	SB-21-7 1/28/2002 7	SB-22-0.5 1/25/2002 0.5	SB-22-7 1/25/2002 7	SB-23-0.5 1/25/2002 0.5	SB-23-7 1/25/2002 7	SB-24-0.5 1/24/2002 0.5
EPA 8270C Semi-Volatile Organics(cont.)	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
4-Nitrophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2.4-Dinitrotoluene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	mg/kg	0.5		ND	ND	ND	ND	ND	ND	ND
Diethyl Phthalate	mg/kg	0.5	ND	ND I	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-Phenyl Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	mg/kg	0.5	ND	ND I	ND	ND	ND	ND	ND	ND
Azobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-Methylphenol	mg/kg	2.5		ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	mg/kg	0.5		ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	mg/kg	0.5		ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-Phenyl Ether	mg/kg	0.5		ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	mg/kg	0.5		ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	mg/kg	2.5		ND	ND	ND	ND	ND	ND	ND
Phenanthrene	mg/kg	0.4	0.42	1.6	ND	ND	ND	ND	ND	ND
Anthracene	mg/kg	0.4	0.13J	0.54	ND	ND	ND	ND	ND	ND
Di-n-Butyl Phthalate	mg/kg	0.5		ND	ND	ND	ND	ND	ND	ND
Fluoranthene	mg/kg	0.4	3.3	14	ND	ND	ND	ND	ND	ND
Benzidine	mg/kg	10	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	mg/kg	0.4	3.4	14	ND	ND	ND	ND	ND	ND
Pyridine	mg/kg	0.5		ND	ND	ND	ND	ND	ND	ND
Butyl Benzyl Phthalate	mg/kg	0.5		ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	mg/kg	0.5		ND	ND	ND	ND	ND	ND	ND
Benzo (a) Anthracene	mg/kg	0.4		13	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl) Phthalate	mg/kg	0.5		ND	ND	ND	ND	ND	ND	ND
Chrysene	mg/kg	0.4	2.9	13	ND	ND	ND	ND	ND	ND
Di-n-Octyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (k) Fluoranthene	mg/kg	0.4	2.6	11	ND	ND	ND	ND	ND	ND
Benzo (b) Fluoranthene	mg/kg	0.4	2.8	12	ND	ND	ND	ND	ND	ND
Benzo (a) Pyrene	mg/kg	0.35		12	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) Pyrene	mg/kg	0.4		4.7	ND	ND	ND	ND	ND	ND
Dibenz (a,h) Anthracene	mg/kg	0.4	0.42	1.6	ND	ND	ND	ND	ND	ND
Benzo (g,h,i) Perylene	mg/kg	0.4	1.0	4.2	ND	ND	ND	ND	ND	ND

Table 7
Summary of Soil Analytical Data - SVOCs
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled			SB-24-7 1/24/2002	SB-25-0.5 1/24/2002	SB-25-7 1/24/2002	SB-26-0.5 1/24/2002	SB-26-7 1/24/2002	SB-27-2 1/25/2002	SB-27-5 1/25/2002	SB-27-10 1/25/2002
Depth (feet below ground surfac	e)		7	0.5	7	0.5	7	2	5	10
		MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
EPA 8270C		7	1000		10000		7.2.2.	11-1060		0.00
Semi-Volatile Organics	Unit							1000		
N-Nitrosodimethylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Aniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroethyl) Ether	mg/kg	2.5	ND	ND .	ND	ND	ND	ND	ND	ND
2-Chlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1.3-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1.4-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl Alcohol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1.2-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroisopropyl) Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
3/4-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	mg/kg	2.5	ND	ND	ND.	ND	ND	ND	ND	ND
Isophorone	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2.4-Dimethylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic Acid	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroethoxy) Methane	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloro-1,3-Butadiene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Chioro-3-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	mg/kg	1.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	mg/kg]	2.5	ND	ND	ND	ND	MD	MD	ND	ND

Table 7
Summary of Soil Analytical Data - SVOCs
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground surface	e)		SB-24-7 1/24/2002 7	SB-25-0.5 1/24/2002 0.5	SB-25-7 1/24/2002 7	SB-26-0.5 1/24/2002 0.5	SB-26-7 1/24/2002 7	SB-27-2 1/25/2002 2	SB-27-5 1/25/2002 5	SB-27-10 1/25/2002 10
EPA 8270C Semi-Volatile Organics(cont.)	Unit	MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
4-Nitrophenol	mg/kg	0.5	ND	ND	ND	ND	ND .	ND	ND	ND
Dibenzofuran	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-Phenyl Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Azobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4.6-Dinitro-2-Methylphenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-Phenyl Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-Butyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	mg/kg	10	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Pyridine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Butyl Benzyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
3.3'-Dichlorobenzidine	mg/kg	0.5	ND	ND	ND.	ND	ND	ND	ND	ND
Benzo (a) Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND:	ND	ND	ND
Bis(2-Ethylhexyl) Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-Octyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (k) Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (b) Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a) Pyrene	mg/kg	0.35	ND	ND	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-c,d) Pyrene	mg/kg	0.4	ND	ND .	ND	ND	ND	ND	ND	ND
Dibenz (a,h) Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (g.h.i) Perylene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND

Table 7
Summary of Soil Analytical Data - SVOCs
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled			SB-29-2 2/1/2002	SB-29-7 2/1/2002	SB-31-0.5 1/23/2002	SB-31-7 1/23/2002	SB-32-5 1/25/2002	SB-32-5-D 1/25/2002	SB-32-10 1/25/2002	SB-32-10-1 1/25/2002
Depth (feet below ground surface	e)		2	7	0.5	7	5	5	10	10
		MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
EPA 8270C	01-02									
Semi-Volatile Organics	Unit		1000						110	
N-Nitrosodimethylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Aniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroethyl) Ether	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	mg/kg	0,5	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl Alcohol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloraisopropyl) Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
3/4-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2.4-Dimethylphenol	mg/kg	0.5	ND	ND	ND.	ND	ND	ND	ND	ND
Benzoic Acid	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroethoxy) Methane	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
1.2.4-Trichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ma/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloro-1.3-Butadiene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-Methylphenol	mg/kg	0.5	ND	ND	ND ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	mg/kg	1.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
2.4-Dinitrophenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND

Table /
Summary of Soil Analytical Data - SVOCs
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled			SB-29-2 2/1/2002	SB-29-7 2/1/2002	SB-31-0.5 1/23/2002	SB-31-7 1/23/2002	SB-32-5 1/25/2002	SB-32-5-D 1/25/2002	SB-32-10 1/25/2002	SB-32-10-D 1/25/2002
Depth (feet below ground surface	e)		2	7	0.5	7	5	5	10	10
EPA 8270C		MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Semi-Volatile Organics(cont.)	Unit				0.0					
4-Nitrophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-Phenyl Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Azobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-Methylphenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-Phenyl Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-Butyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	mg/kg	10	ND	ND	ND	ND .	ND	ND	ND	ND
Pyrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Pyridine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Butyl Benzyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a) Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl) Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-Octyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (k) Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (b) Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (a) Pyrene	mg/kg	0.35	ND	ND	ND	ND	ND	ND	ND	ND
Indena (1,2,3-c,d) Pyrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz (a,h) Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Benzo (g.h.i) Perylene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	ND

Table 7
Summary of Soil Analytical Data - SVOCs
Proposed East Valley Middle School No. 1
Laurel Carryon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled			SB-32-15 1/25/2002	SB-32-15-D 1/25/2002	SB-33-5 1/25/2002	SB-33-10 1/25/2002	SB-33-15 1/25/2002	SB-34-20 1/28/2002	SB-34-30 1/28/2002	
Depth (feet below ground surface	e)		5	15	5	10	15	20	30	
Service Control		MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
EPA 8270C			100		1		1.100	1		
Semi-Volatile Organics	Unit							1		
N-Nitrosodimethylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Aniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Phenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Bis(2-Chloroethyl) Ether	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	
2-Chlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
1,3-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Benzyl Alcohol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
2-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Bis(2-Chloroisopropyl) Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
3/4-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND I	
N-Nitroso-di-n-propylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Hexachloroethane	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Nitrobenzene	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	
Isophorone	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
2-Nitrophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
2,4-Dimethylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Benzoic Acid	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	
Bis(2-Chloroethoxy) Methane	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	-
2.4-Dichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	-
1.2.4-Trichlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Naphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	
4-Chloroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	-
Hexachloro-1,3-Butadiene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
4-Chloro-3-Methylphenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
2-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	
1-Methylnaphthalene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	_
Hexachlorocyclopentadiene	mg/kg	1.5	ND	ND	ND	ND	ND	ND	ND	
2,4,5-Trichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND ND	-
2-Chloronaphthalene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
2-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Dimethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND ND	_
Acenaphthylene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	-
Acenaphthylene 3-Nitroaniline		0.4	ND	ND ND	ND	ND	ND	ND	ND ND	
3-Nitroaniine Acenaphthene	mg/kg		ND	ND	ND	ND	ND	ND ND	ND ND	
2,4-Dinitrophenol	mg/kg mg/kg	2.5	ND	ND	ND ND	ND ND	ND	ND	ND ND	
z,4-Dinitrophenoi	mg/kg)	2.0	IND	IND	IVU	NU	NU	MD	NU	

Table 7
Summary of Soil Analytical Data - SVOCs
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground surface	e)		SB-32-15 1/25/2002 5	SB-32-15-D 1/25/2002 15	SB-33-5 1/25/2002 5	SB-33-10 1/25/2002 10	SB-33-15 1/25/2002 15	SB-34-20 1/28/2002 20	SB-34-30 1/28/2002 30	
EPA 8270C		MDL	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.	Conc.
Semi-Volatile Organics(cont.)	Unit								1	
4-Nitrophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Dibenzofuran	mg/kg	0,5	ND	ND	ND	ND	ND	ND	ND	
2,4-Dinitrotoluene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
2,6-Dinitrotoluene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Diethyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
4-Chlorophenyl-Phenyl Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Fluorene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	
4-Nitroaniline	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Azobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
4,6-Dinitro-2-Methylphenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	
N-Nitrosodiphenylamine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
2,4,6-Trichlorophenol	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
4-Bromophenyl-Phenyl Ether	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Hexachlorobenzene	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Pentachlorophenol	mg/kg	2.5	ND	ND	ND	ND	ND	ND	ND	
Phenanthrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	
Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND I	
Di-n-Butyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	
Benzidine	mg/kg	10	ND	ND	ND	ND	ND	ND	ND	1000
Pyrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	
Pyridine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Butyl Benzyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND .	ND	ND	
3,3'-Dichlorobenzidine	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Benzo (a) Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	
Bis(2-Ethylhexyl) Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Chrysene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	
Di-n-Octyl Phthalate	mg/kg	0.5	ND	ND	ND	ND	ND	ND	ND	
Benzo (k) Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	
Benzo (b) Fluoranthene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	
Benzo (a) Pyrene	mg/kg	0.35	ND	ND	ND	ND	ND	ND	ND	
Indeno (1,2,3-c,d) Pyrene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	
Dibenz (a,h) Anthracene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND.	
Benzo (g.h.i) Perylene	mg/kg	0.4	ND	ND	ND	ND	ND	ND	ND	

Table 8
Summary of Soil Analytical Data - Physical Properties
Proposed East Valley Middle School No. 1
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Methods: ASTM	D2216, API F	RP40, AST	M D508	4, EPA	9060B					25.0 PSI C	onfining Stress
	Sample	Moisture	l Dei	nsity	Porosity	%Vb (2)	Po	ore Fluid	Total Organic	Native State Effective Permeability	Native State Effective Hydraulic
Sample ID	Orientation	Content		Grain	r orodity,	Air		ons, % Pv (3)	Carbon	to Water (5)	Conductivity (5)
V	(1)	(% wt)	(g/cc)	(g/cc)	Effective	Filled	Water	Hydrocarbon	(mg/kg)	(millidarcy)	(cmfs)
SB-9-Physical	V	7.1	1.38	2.69	48.7	38.3	21.3	ND<0.1	1800	28.2	2.66E-05
SB-12-Physical	V	5.3	1.50	2.68	43.9	35.6	18.9	ND<0.1	7300	336	3.04E-05
SB-16-Physical	V	6.0	1.49	2.69	44.6	35.3	21.0	ND<0.1	1400	32.6	3.15E-04
SB-29-Physical	V	9.0	1.65	2.72	39.5	24.4	36.2	2.5	500	203	1.90E-04

Table 9 Summary of Soil Analytical Data - pH Proposed East Valley Middle School No. 1 Laurel Canyon Boulevard and Hamlin Street Los Angeles, California

Sample Identification Date Sampled Depth (feet below ground surface)		SB-28-2 1/25/2002 2	SB-28-7 1/25/2002 7
EPA Method 9045C	рН	4.12	5.84

Table 10 Background Soil Sample Concentrations for Metals and PRGs Francis Polytechnic High School 12432 Roscoe Boulevard Sun Valley, CA 91352

Chemical	Units	Minimum Background Concentration	Maximum Background Concentration	Average Background Concentration
Antimony ^a	mg/kg	5.09U	5.92U	5.34
Arsenic ^b	mg/kg	1.02U	1.64	1.29
Barium	mg/kg	53.5	137	91.8
Beryllium ^a	mg/kg	0.509U	0.592U	0.53
Cadmium ^a	mg/kg	0.509U	0.592U	0.53
Chromium	mg/kg	5.46	16.5	10.26
Cobalt ^b	mg/kg	5.09U	8.51	6.45
Copper	mg/kg	5.98	20.4	12.42
Lead	mg/kg	1.27	13.8	4.09
Molybdenum ^a	mg/kg	4.07U	4.73U	4.27
Nickel ^b	mg/kg	4.07U	12.10	7.44
Seleniuma	mg/kg	1.02U	1.18U	1.07
Silver ^a	mg/kg	1.02U	1.18U	1.07
Thallium ^a	mg/kg	2.04U	2.37U	2.14
Vanadium	mg/kg	15.4	34.6	23.8
Zinc	mg/kg	19.6	57.7	37.6

Notes:

Values with U were below detection limit.

- ^a All values used to calculate the average concentration contained a U qualifier.
- ^b Some values used to calculate the average concentration contained a U qualifier.
- California Benchmark Soil values taken from Bradford et al., 1996.
 mg/kg milligrams per kilogram

Reference: Table 2, Background Soil Sample Concentrations for Metals and PRGs Francis Polytechnic High School (IT, 2000)

Table 11
Comparison with Background Soil Metal Concentrations
East Valley Middle School
Laurel Canyon Boulevard and Hamlin Street
Los Angeles, California

Title 22 Metals	Number Detected at Site	Site Maximum Concentration (mg/kg)	Site Mean Concentration (mg/kg)	Standard Deviation	Site 95%UCL Concentration (mg/kg)	Number Background Samples	Background Maximum Concentration (mg/kg)	Background Mean Concentration (mg/kg)	Site Max > Bcgrd Max ?	Site Avg > Bcgrd Max ?	COPC
Antimony	21	1.56	0.40	0.19	0.44	6	5.92	5.34	No	No	No
Arsenic	28	1.75	0.43	0.23	0.48	6	1.64	1.29	Yes	No	No
Barium	71	315	88.90	54.60	99.56	6	137	91.8	Yes	No	No
Beryllium	71	0.583	0.20	0.09	0.21	6	0.592	0.53	No	No	No
Cadmium	70	1.25	0.30	0.25	0.35	6	0.592	0.53	Yes	No	No
Chromium (Total)	71	45.6	9.06	5.70	10.18	6	16.5	10.26	Yes	No	No
Cobalt	71	14	6.71	2.79	7.25	6	8.51	6.45	Yes	No	No
Copper	7.1	51.4	9.50	6.54	10.78	6	20.4	12.42	Yes	No	No
Lead	71	39.3	5.09	6.48	6.36	6	13.8	4.09	Yes	No	No
Molybdenum	40	1.58	0.15	0.25	0.20	6	4.73	4.27	No	No	No
Nickel	71	17.9	6.54	3.05	7.14	6	12.1	7.44	Yes	No	No
Selenium	10	1.64	0.39	0.15	0.42	6	1.18	1.07	Yes	No	No
Silver	3	0.111	0.12	0.01	0.13	6	1.18	1.07	No	No	No
Thallium	0	ND	ND	ND	ND	6	2.37	2.14	No	No	No
Vanadium	71	64.6	22.17	10.57	24.23	6	34.6	23.8	Yes	No	No
Zinc	71	202	39.90	29.08	45.58	6	57.7	37.6	Yes	No	No
Мегсигу	59	0.245	0.04	0.04	0.04	6	0.118	0.107	Yes	No	No

Notes:

Background soil sample data obtained from the LAUSD Francis Polytechnic High School.

95%UCL = 95 percent upper confidence limit on the arithmetic mean

Table 12 Toxicity Criteria for Chemicals of Potential Concern East Valley Middle School Laurel Canyon Boulevard and Hamlin Street Los Angeles, California

Chemical	Chronic Oral Reference Dose (RfDo) [mg/kg-day]		Inhalation Reference Dose (RfDi) [mg/kg-day]		Oral Cancer Factor (CSFo) [mg/kg-day		Inhalation Cancer Slope Factor (CSFi) [mg/kg-day] ⁻¹	
Pesticides					100		77 - 14	
DDD	NA		NA		2.4E-01	i	2.4E-01	r
DDE	NA		NA		3.4E-01	i	3.4E-01	r
DDT	5.0E-04	i	5.0E-04	r	3.4E-01	i	3.4E-01	i
SVOCs								
Anthracene	3.0E-01	i	3.0E-01	r	NA		NA	
Benzo (a) anthracene	NA		NA		1.2E+00	c	3.9E-01	c
Benzo (a) pyrene	NA	1 1	NA		1.2E+01	c	3.9E+00	c
Benzo (b) fluoranthene	NA		NA		1.2E+00	c	3.9E-01	c
Benzo (g,h,i) perylene	3.0E-01	i	3.0E-01	r	NA		NA	100
Benzo (k) fluoranthene	NA.		NA	10	1.2E+00	c	3.9E-01	c
Bis (2-ethylhexyl) phthala	2.0E-02	i	2.2E-02	r	3.0E-03	c	8.4E-03	c
Chrysene	NA		NA		1,2E-01	c	3.9E-02	c
Dibenzo (a,h) anthracene	NA		NA		4.1E+00	c	4.1E+00	c
Di-n-butyl phthalate	1.0E-01	i	1.0E-01	r	NA		NA	
Fluoranthene	4.0E-02	i	4.0E-02	r	NA		NA	
Indeno (1,2,3-c,d) pyrene	NA		NA	18	1.2E+00	c	3.9E-01	
Phenanthrene	3.0E-01	w	3.0E-01	w	NA		NA	
Pyrene	3.0E-02	i	3.0E-02	r	NA		NA	

Notes:

c = Cal/EPA Cancer Potency Database 2001

i = Integrated Risk Information System

NA = Not available or not applicable.

r = Oral to Inhalation Route Extrapolation

w = Withdrawn (USEPA, 1999)

Table 13 Toxicity Criteria for VOC Chemicals of Potential Concern East Valley Middle School Laurel Canyon Boulevard and Hamlin Street Los Angeles, California

Chemical	Inhalation Reference Dose (RfDi) [mg/kg-day]		Inhalation Reference Conc. (RfC) (ug/cu m)		Inhalation Ca Slope Fact (CSFi) [mg/kg-day	tor	Inhalation Cancer Unit Risk Factor (URF) [ug/cu m] ⁻¹	
VOCs		-				Ī		
Dichlorodifluoromethane	5.71E-02	р	2.00E+02	p	NA	1 1	NA	
Trichlorofluoromethane	2.00E-01	p	7.00E+02	p	NA		NA	
1,1,1-Trichloroethane	2.86E-02	d	1.00E+03	d	NA	1	ŅA	
Benzene	1.71E-02	c	6.00E+01	c	1.00E-01	c	2.90E-05	C
Toluene	8.57E-02	c	3.00E+02	c	NA		NA	
Trichloroethene	1.71E-01	c	6.00E+02	c	1.00E-02	c	2.00E-06	c
Tetrachloroethene	1.00E-02	r, i	3.50E+01	d	2.10E-02	c	5.90E-06	c
Ethylbenzene	5.71E-01	c	2.00E+03	C	NA		NA	
p/m Xylene	2.00E-01	C	7.00E+02	C	NA	1 1	NA	
Styrene	2.57E-01	C	9.00E+02	c	NA		NA	
o-Xylene	2.00E-01	c	7.00E+02	c	NA		NA	
1,3,5-Trimethylbenzene	1.70E-03	p	6.00E+00	p	NA		NA	
1,2,4-Trimethylbenzene	1.70E-03	р	6.00E+00	p	NA		NA	

Notes:

- c = Cal/EPA Cancer Potency or Chronic Relative Exposure Levels Database 2001
- d = DTSC Soil Screening Johnson & Ettinger vapor intrusion modeling program, VLOOKUP table, version 1.0, December 2001
- i = Integrated Risk Information System
- p = USEPA Region 9 Preliminary Remediation Goals website <www.epa.gov/Region 9/waste/sfund/grg/s4_03.htm>
- NA = Not available or not applicable
- r = Oral to Inhalation Route Extrapolation

Table 14 Source of Inputs Used for the Johnson and Ettinger Soil Gas Vapor Intrusion Model East Valley Middle School Laurel Canyon Boulevard and Hamlin Street Los Angeles, California

Input Paramter	Value	Source of Value
Depth below grade to bottom of enclosed space floor	15 cm	J&E Default value
Soil gas sampling depth below grade	274-609 cm	Specific for identified contaminants (last digits of sample # are ft bgs)
Avg soil temperature	20.2 °C	Measured site data
Predominant vadose zone SCS soil type	Loamy Sand (LS)	Averaged from boring logs for borings ≥ 10 ft depth (Appendix A)
Soil dry bulk density	1.46 g/cu cm	Measured physical soils site data (Appendix B)
Soil total porosity	0.457	Measured physical soils site data (Appendix B)
Soil water-filled porosity	0.204	Measured physical soils site data (Appendix B)
Toxicity values	R _f C _{inh} or URF _{inh}	OEHHA and IRIS values as shown on enclosed VLOOKUP Table
Physical chemical properties of analytes	varies	Determined from VLOOKUP Table and NIST website

Table 15 Conversion of Soil Gas Concentration to Soil Concentration for VOCs East Valley Middle School Laurel Canyon Boulevard and Hamlin Street Los Angeles, California

Volatile Organic Compound	CAS#	Sample Number Containing Maximum Conc.	Maximum Soil Gas Conc. (ug/cu m)	Maximum Soil Gas Conc. (ug/L)	Soil Water Filled Porosity (dimen- sionless)	Total Soil Porosity (dimen- sionless)	Henry's Law Constant (dimen- sionless)	Dry Soil Bulk Density (g/cu cm)	Organic Carbon Part'n Coeff (cu cm/g)	Soil Organic Carbon Content (dimen- sionless)	Soil Conc. (ug/kg)
Equation Symbol:				C_G	$\theta_{\rm w}$	n	K _H	ρ _b	Koc	foc	CT
Dichlorodifluoromethane	75718	SG-4-20	75.38	7.54E-02	0.204	0.457	2.97E-04	1.46	5.80E+01	1.60E-03	5.16E+01
Trichlorofluoromethane	75694	SG-14-20D	171.30	1.71E-01	0.204	0.457	1.26E-03	1.46	1.60E+02	1.60E-03	4.29E+01
1,1,1-Trichloroethane	71556	SG-15-10D	7.76	7.76E-03	0.204	0.457	7.05E-01	1.46	1.10E+02	1.60E-03	4.21E-03
Benzene	71432	SG-10-10	6.17	6.17E-03	0.204	0.457	2.28E-01	1.46	5.89E+01	1.60E-03	6.60E-03
Toluene	108883	SG-10-10	99.58	9.96E-02	0.204	0.457	2.72E-01	1.46	1.82E+02	1.60E-03	1.41E-01
Trichloroethene	79016	SG-11-9D	20.74	2.07E-02	0.204	0.457	4.22E-01	1.46	1.66E+02	1.60E-03	1.94E-02
Tetrachloroethene	127184	SG-11-9D	5789.58	5.79E+00	0.204	0.457	7.54E-01	1.46	1.55E+02	1.60E-03	3,38E+00
Ethylhenzene	100414	SG-15-10D	295.65	2.96E-01	0.204	0.457	3.23E-01	1.46	3.63E+02	1.60E-03	5.43E-01
p/m Xylene	108383	SG-15-10D	1147.31	1.15E+00	0.204	0.457	3.01E-01	1.46	4.07E+02	1.60E-03	2.43E+00
Styrene	100425	SG-15-20D*	11.93	1.19E-02	0.204	0.457	1.13E-01	1.46	7.76E+02	1.60E-03	1.07E-01
o-Xylene	95476	SG-15-10D	485.40	4.85E-01	0.204	0.457	2.13E-01	1.46	3.63E+02	1.60E-03	1.31E+00
1,3,5-Trimethylbenzene	108678	SG-10-20	139.88	1.40E-01	0.204	0.457	1.66E-02	1.46	8.20E+02	1.60E-03	8.77E+00
1,2,4-Trimethylbenzene	95363	SG-10-20	1848.46	1.85E+00	0.204	0.457	1.90E-02	1.46	3.70E+03	1.60E-03	4.08E+02

Legend: CAS# = chemical abstracts number; Conc = concentration; cu cm/g = cubic centimeter per gram; g/cu cm = gram per cubic centimeter; ug/cu m = microgram per cubic meter; ug/kg = microgram per kilogram; ug/L = microgram per liter.

^{*} Maximum value for styrene was one half of the detection limit for sample SG-15-20D.

Table 16 Incremental Cancer Risk Estimated for Ingestion and Dermal Contact with Soil Hypothetical On-Site Residential Receptors East Valley Middle School

Laurel Canyon Boulevard and Hamlin Street Los Angeles, California

Chemical	Maximum Soil Chemical Concentration (mg/kg)	Oral Cancer Slope Factor (CSFo) [mg/kg-day] ⁻¹	Absorption Fraction (unitless)	Oral & Dermal Cancer Risl (unitless)
Pesticides				
DDD	0.0031	2.4E-01	0.03	1.59E-09
DDE	0.0034	3,4E-01	0.03	2.46E-09
DDT	0.019	3.4E-01	0.03	1.38E-08
SVOCs				
Anthracene	0.54	NA	0.15	NA
Benzo (a) anthracene	13	1.2E+00	0.13	6.24E-05
Benzo (a) pyrene	12	1.2E+01	0.13	5.76E-04
Benzo (b) fluoranthene	12	1.2E+00	0.13	5.76E-05
Benzo (g,h,i) perylene	4,2	NA	0.15	NA
Benzo (k) fluoranthene	11	1.2E+00	0.13	5.28E-05
Bis (2-ethylhexyl) phthalate	0.22	3.0E-03	0.1	2.27E-09
Chrysene	13	1.2E-01	0.13	6,24E-06
Dibenzo (a,h) anthracene	1.6	4.1E+00	0.13	2.62E-05
Di-n-butyl phthalate	0.15	NA	0.1	NA
Fluoranthene	14	NA	0.13	NA
Indeno (1,2,3-c,d) pyrene	4.7	1.2E+00	0.13	2.26E-05
Phenanthrene	1.5	NA	0.15	NA
Pyrene	14	NA	0.15	NA
TOTAL INCREMENTAL CA	NCER RISK			8.0E-04

Notes:

SVOCs = Semivolatile organic compounds mg/kg = milligrams per kilogram mg/kg-day = milligram per kilogram per day

Table 17

Incremental Cancer Risk Estimated for Exposure to Dust Particles in Air Hypothetical On-Site Residential Receptors East Valley Middle School Laurel Canyon Boulevard and Hamlin Street Los Angeles, California

Chemical	Maximum Soil Chemical Concentration (mg/kg)	Inhalation Cancer Slope Factor (CSFi) [mg/kg-day] ⁻¹	Inhalation Cancer Risk (unitless)
Pesticides		H D	
DDD	0.0031	2.4E-01	5.54E-12
DDE	0.0034	3.4E-01	8.61E-12
DDT	0.019	3.4E-01	4.81E-11
SVOCs			
Anthracene	0.54	NA	NA
Benzo (a) anthracene	13	3.9E-01	3.78E-08
Benzo (a) pyrene	12	3.9E+00	3.49E-07
Benzo (b) fluoranthene	12	3.9E-01	3.49E-08
Benzo (g,h,i) perylene	4.2	NA	NA
Benzo (k) fluoranthene	11	3.9E-01	3.20E-08
Bis (2-ethylhexyl) phthalate	0.22	8.4E-03	1.38E-11
Chrysene	13	3.9E-02	3.78E-09
Dibenzo (a,h) anthracene	1.6	4.1E+00	4.89E-08
Di-n-butyl phthalate	0.15	NA	NA
Fluoranthene	14	NA	NA
Indeno (1,2,3-c,d) pyrene	4.7	3.9E-01	1.37E-08
Phenanthrene	1.5	NA	NA
Pyrene	14	NA	NA
TOTAL INCREMENTAL CA	ANCER RISK		5.2E-07

Notes:

SVOCs = Semivolatile organic compounds

mg/kg = milligrams per kilogram

mg/kg-d = milligram per kilogram per day

Table 18 Health Hazards Estimated for the Ingestion and Dermal Contact with Soil Hypothetical On-Site Residential Receptors East Valley Middle School

Laurel Canyon Boulevard and Hamlin Street Los Angeles, California

Chemical	Maximum Soil Chemical Concentration (mg/kg)	Chronic Oral Reference Dose (RfDo) (mg/kg-day)	Absorption Fraction (unitless)	Oral & Dermal Hazard Inde (unitless)	
Pesticides				/	
DDD	0.0031	NA	0.03	NA	
DDE	0.0034	NA	0.03	NA	
DDT	0.019	5.0E-04	0.03	6.3E-04	
SVOCs					
Anthracene	0.54	3.0E-01	0.15	5.8E-05	
Benzo (a) anthracene	13	NA	0.13	NA	
Benzo (a) pyrene	12	NA	0.13	NA	
Benzo (b) fluoranthene	12	NA.	0.13	NA	
Benzo (g,h,i) perylene	4.2	3.0E-01	0.15	4.5E-04	
Benzo (k) fluoranthene	11	NA	0.13	NA	
Bis (2-ethylhexyl) phthalate	0.22	2.0E-02	0,1	2.8E-04	
Chrysenc	13	NA	0.13	NA	
Dibenzo (a,h) anthracene	1.6	NA	0.13	NA	
Di-n-butyl phthalate	0.15	1.0E-01	0.1	3.8E-05	
Fluoranthene	14	4.0E-02	0.13	1.0E-02	
Indeno (1,2,3-c,d) pyrene	4.7	NA	0.13	NA	
Phenanthrene	1.5	3.0E-01	0.15	1.6E-04	
Pyrene	14	3.0E-02	0.15	1.5E-02	
TOTAL HEALTH HAZARD				2.7E-02	

Notes:

SVOCs = Semivolatile organic compounds

mg/kg = milligrams per kilogram

mg/kg-d = milligram per kilogram per day

Table 19 Health Hazards Estimated for Inhalation of Dust Particles in Air Hypothetical On-Site Residential Receptors East Valley Middle School Laurel Canyon Boulevard and Hamlin Street

Los Angeles, California

Chemical	Maximum Soil Chemical Concentration (mg/kg)	Chronic Inhalation Reference Dose (RfDi) (mg/kg-day)	Absorption Fraction (unitless)	Inhalation Hazard Quotient (unitless)	
Pesticides					
DDD	0.0031	NA	0.03	NA	
DDE	0.0034	NA	0.03	NA 1.2E-06	
DDT	0.019	5.0E-04	0.03		
SVOCs					
Anthracene	0.54	3.0E-01	0.15	5.8E-08	
Benzo (a) anthracene	13	NA	0.13	NA	
Benzo (a) pyrene	12	NA	0.13	NA	
Benzo (b) fluoranthene	12	NA	0.13	NA	
Benzo (g,h,i) perylene	4.2	3.0E-01	0.15	4.5E-07	
Benzo (k) fluoranthene	11	NA	0.13	NA	
Chrysene	13	NA	0.13	NA	
Dibenzo (a,h) anthracene	1.6	NA	0.13	NA	
Fluoranthene	14	4.0E-02	0.13	1.1E-05	
Indeno (1,2,3-c,d) pyrene	4.7	NA	0.13	NA	
Phenanthrene	1.5	3.0E-01	0.15	1.6E-07	
Pyrene	14	3.0E-02	0.15	1.5E-05	
TOTAL HEALTH HAZARI)			2.8E-05	

Notes:

SVOCs = Semivolatile organic compounds

mg/kg = milligrams per kilogram

mg/kg-d = milligram per kilogram per day

Table 20 Residential Cumulative Risks and Hazards East Valley Middle School Laurel Canyon Boulevard and Hamlin Street Los Angeles, California

	Resid	dential Exposure S	Scenario	
COPC	Residential EPC (mg/kg)	Cancer Risk Adult/Child	Hazard Index	
Pesticides	1			
DDD	0.0031	1.6E-09	NA	
DDE	0.0034	2.5E-09	NA	
DDT	0.019	1.4E-08	6.3E-04	
SVOCs				
Anthracene	0.54	NA	5.8E-05	
Benzo (a) anthracene	13	6.2E-05	NA	
Benzo (a) pyrene	12	5.8E-04	NA	
Benzo (b) fluoranthene	12	5.8E-05	NA	
Benzo (g,h,i) perylene	4.2	NA	4.5E-04	
Benzo (k) fluoranthene	11	5,3E-05	NA	
Bis (2-ethylhexyl) phthalate	0.22	2.3E-09	2.8E-04	
Chrysene	13	6.2E-06	NA	
Dibenzo (a,h) anthracene	1.6	2.6E-05	NA	
Di-n-butyl phthalate	0.15	NA	3.8E-05	
Fluoranthene	14	NA	1.0E-02	
Indeno (1,2,3-c,d) pyrene	4.7	2.3E-05	NA	
Phenanthrene	1.5	NA	1.6E-04	
Pyrene	14	NA	1.5E-02	
TOTAL RISKS and HAZA	RDS	8.0E-04	2.7E-02	

Notes:

* Includes Incidental Soil Ingestion, Dermal Contact and Inhalation of Dust

EPC = Exposure Point Concentration

COPC = Chemicals of potential concern

mg/kg = milligrams per kilogram

Table 21 Incremental Cancer Risk Estimated for Exposure to Soil Gas VOCs in Indoor Air

Hypothetical On-Site Residential Receptors East Valley Middle School Laurel Canyon Boulevard and Hamlin Street Los Angeles, California

Maximum Soil Gas Concentration (ug/cu m)	Inhalation Cancer Unit Risk Factor (URFi) [ug/cu m] ⁻¹	Inhalation Cancer Risk (unitless)	
75.38	NA	na	
171.30	NA	na	
7.76	NA	na	
6.17	2.90E-05	8.10E-09	
99.58	NA	na	
20.74	2.00E-06	1.90E-09	
5789.58	5.90E-06	1.50E-06	
295.65	NA	na	
1147.31	NA	na	
11.93	NA	na	
485.40	NA	na	
139.88	NA	na	
1848.46	NA	na	
	Gas Concentration (ug/cu m) 75.38 171.30 7.76 6.17 99.58 20.74 5789.58 295.65 1147.31 11.93 485.40 139.88	Cancer Unit Risk Factor (URFi) [ug/cu m] [ug/cu m]	

Notes:

VOCs = volatile organic compounds ug/cu m = micrograms per cubic meter NA = not applicable

Table 22 Health Hazards Estimated for Inhalation of Soil Gas VOCs in Indoor Air Hypothetical On-Site Residential Receptors East Valley Middle School

Laurel Canyon Boulevard and Hamlin Street Los Angeles, California

Chemical	Maximum Soil Gas VOC Concentration (ug/cu m)	Chronic Inhalation Reference Concentration (RfC) (mg/cu m)	Ambient Air Concentration (ug/cu m)	Inhalation Hazard Quotient (unitless)	
Soil VOCs					
Dichlorodifluoromethane	75.38	2.00E-01	6.10E-03	2.9E-05	
Trichlorofluoromethane	171.30	7.00E-01	1.32E-02	1.8E-05	
1,1,1-Trichloroethane	7.76	1,00E+00	8.07E-04	7.7E-07	
Benzene	6.17	6.00E-02	6.79E-04	1.1E-05	
Toluene	99.58	3.00E-01	1.09E-02	3.5E-05	
Trichloroethene	20.74	6.00E-01	2.28E-03	3.7E-06	
Tetrachloroethene	5789.58	3.50E-02	6.11E-01	1.7E-02	
Ethylbenzene	295.65	2.00E+00	3.02E-02	1.4E-05	
p/m Xylene	1147.31	7.00E-01	1.13E-01	1.6E-04	
Styrene	11.93	9.00E-01	7.76E-04	8.3E-07	
o-Xylene	485.40	7.00E-01	5.31E-02	7.3E-05	
1,3,5-Trimethylbenzene	139.88	6.00E-03	9.46E-03	1.5E-03	
1,2,4-Trimethylbenzene	1848.46	6.00E-03	1.25E-01	2.0E-02	
TOTAL HEALTH HAZA	RD			3.9E-02	

Notes:

VOCs = volatile organic compounds ug/cu m = micrograms per cubic meter mg/cu m = milligrams per cubic meter

Table 23 Incremental Cancer Risk Estimated for Exposure to Soil Gas VOCs in Outdoor Air

Hypothetical On-Site Residential Receptors East Valley Middle School Laurel Canyon Boulevard and Hamlin Street Los Angeles, California

Chemical	Maximum Calculated Soil VOC Concentration (mg/kg)	Calculated Inhalation Slope Factor (mg/kg-day) ⁻¹	Inhalation Cancer Risk (unitless)	
Soit Gas VOCs				
Dichlorodifluoromethane	5.16E-02	NA	NA	
Trichlorofluoromethane	4.29E-02	NA	NA	
1,1,1-Trichloroethane	4.21E-06	NA	NA	
Benzene	6.60E-06	1.00E-01	1.89E-11	
Toluene	1.41E-04	NA	NA	
Trichloroethene	1.94E-05	1.00E-02	4.07E-12	
Tetrachloroethene	3.38E-03	2.10E-02	2.13E-09	
Ethylbenzene	5.43E-04	NA	NA	
p/m Xylene	2.43E-03	NA	NA	
Styrene	1.07E-04	NA	NA	
o-Xylene	1.31E-03	NA	NA	
1,3,5-Trimethylbenzene	8.77E-03	NA	NA	
1,2,4-Trimethylbenzene	4.08E-01	NA	NA	
TOTAL INCREMENTAL	CANCER RISK		2.2E-09	

Notes:

VOCs = volatile organic compounds mg/kg = milligrams per kilogram mg/kg-day = milligrams per kilogram per day NA = not applicable

Table 24

Health Hazards for Inhalation of Soil Gas VOCs in Outdoor Air Hypothetical On-Site Residential Receptors East Valley Middle School Laurel Canyon Boulevard and Hamlin Street Los Angeles, California

Chemical	Maximum Calculated Soil VOC Concentration (mg/kg)	Chronic Inhalation Reference Dose (RfDi) (mg/kg-day)	Ambient Air Concentration (mg/cu m)	Inbalation Hazard Quotient (unitless)	
Soil VOCs					
Dichlorodifluoromethane	5.16E-02	5.71E-02	2.95E-07	3.3E-06	
Trichlorofluoromethane	4.29E-02	2.00E-01	9.20E-05	2.9E-04	
1,1,1-Trichloroethane	4.21E-06	2.86E-02	1.06E-09	2.4E-08	
Benzene	6.60E-06	1.71E-02	1.27E-09	4.7E-08	
Toluene	1.41E-04	8.57E-02	1.54E-08	1.1E-07	
Trichloroethene	1.94E-05	1.71E-01	2.73E-09	1.0E-08	
Tetrachloroethene	3.38E-03	1.00E-02	6.82E-07	4.4E-05	
Ethylbenzene	5.43E-04	5.71E-01	4.12E-08	4.6E-08	
p/m Xylene	2.43E-03	2.00E-01	1.61E-07	5.2E-07	
Styrene	1.07E-04	2.57E-01	3.08E-09	7.7E-09	
o-Xylene	1.318-03	2.00E-01	8.58E-08	2.7E-07	
1,3,5-Trimethylbenzene	8.77E-03	1.70E-03	9.66E-08	3.6E-05	
1,2,4-Trimethylbenzene	4.08E-01	1.70E-03	2.26E-06	8.5E-04	
TOTAL HEALTH HAZA	RD			1.2E-03	

Notes:

VOCs = volatile organic compounds

mg/kg = milligrams per kilogram

mg/kg-d = milligram per kilogram per day

mg/cu m = milligram per cubic meter

Table 25 Summarized Total Site Cancer Risks and Health Hazards East Valley Middle School Laurel Canyon Boulevard and Hamlin Street Los Angeles, California

COPC Class	Cancer Risk Ingestion/Dermal Pathway	Cancer Risk Inhalation Pathway	Health Hazard Ingestion/Dermal Pathway	Health Hazard Inhalation Pathway	
Pesticides	1.78E-08	6.22E-11	6.30E-04	1.20E-06	
SVOCs	8.00E+04	5.20E-07	2.70E-02	2.69E-05	
VOCs (ambient)	NA	2.20E-09	NA	1,20E-03	
VOCs (indoor)			NA	3,90E-02	
Subtotal Risks/Hazards	8.00E+04	2.02E-06	2.76E-02	4.02E-02	
Total Site Cancer Risk or Health Hazard	8.00E	+04	6.791	E-02	

Notes:

NA = Not applicable

TAbLE 26 Calculation of 95% UCLs for Combined EPA Method TO-14A + 8260 Soil Gas Data and Summarized Johnson and Ettinger Risk Estimates East Valley Middle School Laurel Canyon Boulevard and Hamlin Street

Los Angeles, California

	Range of Concentrations		Mean					95%	No.	Frequency	CAS#	J&E	J&E
Metal	Maximum (ug/cu m)	Minimum (ug/cu m)	Conc ¹ (ug/cu m)	S.D.	N	S.E.	t _{erit}	UCL ² (ug/cu m)	of Detects	of Detection		Cancer Risk ³	HQ ³
Dichlorodifluoromethane	500	4.62	422	179	49	25.6	1.666	465	7	14%	75718	na	1.80E-04
Trichlorofluoromethane	500	1.91	422	179	49	25.6	1.666	465	4	8%	75694	na	4.90E-05
1,1,1-Trichloroethane	500	1.85	419	185	49	26.4	1.666	463	5	10%	71556	na	4.60E-05
Benzene	50	1.12	42	18	49	2.6	1.666	46.3	4	8%	71432	6.10E-08	8.10E-05
Toluene	1000	14.55	843	359	49	51.3	1.666	928	8	16%	108883	na	3.20E-04
Trichloroethene	500	1.80	419	185	49	26.4	1.666	463	2	25%	79016	4.20E-08	8.20E-05
Tetrachloroethene	5790	29.64	855	1091	49	155.9	1.666	1115	12	24%	127184	2.90E-07	3.20E-03
Ethylbenzene	500	11.91	431	163	49	23.3	1.666	470	8	16%	100414	na	2.30E-05
p/m Xylene	1147	66.19	889	296	49	42.3	1.666	959	8	16%	108383	na	1.30E-04
Styrene	500	2.77	419	185	49	26.4	1.666	463	1	12%	100425	na	3.20E-05
o-Xylene	500	27.80	442	148	49	21.1	1.666	477	8	16%	95476	na	7.20E-05
1,3,5-Trimethylbenzene	500	5.50	424	175	49	25.0	1.666	466	7	14%	108678	na	5.10E-03
1,2,4-Trimethylbenzene	1848	12.99	462	259	49	37.0	1.666	524	8	16%	95636	na	5.70E-03
							5	Sum of Risk	s or Haza	rd Quotients:		3.93E-07	0.015

Legend: Conc = concentration; N = number of samples; na = not applicable; S.D. = standard deviation; S.E. = standard error from the mean; t_{ent} = one tailed t-Test critical value; 95% UCL = 95% upper confidence limit from arithmetic mean calculated using t_{ent} shown.

For any given VOC, if it was detected once or more, one-half the analytical detection limit was substituted for all "non-detect" results to enable statistical analysis. Soil gas data from EPA Method TO-14A (n = 8) and from EPA Method 8260 (n = 41) were combined to derive 95% UCL values. Although EPA Method TO-14A analysis generally has lower detection limits than does the 8260 method, site sampling/analysis was comprehensive using EPA Method 8260, whereas only a portion of the site samples were tested using EPA Method TO-14A.

For Johnson & Ettinger modeling, used actual depth at which the highest concentration of each soil gas analyte was measured, and assumed loamy sand was SCS soil type.

J & E = Johnson and Ettinger vapor intrusion modeling results for soil gas using DTSC's soil gas J&E screening model (latest version as of Jan. 2002).

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